

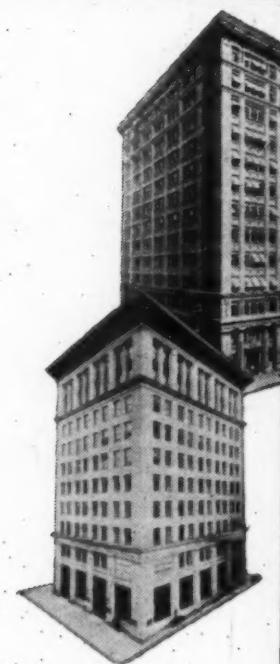
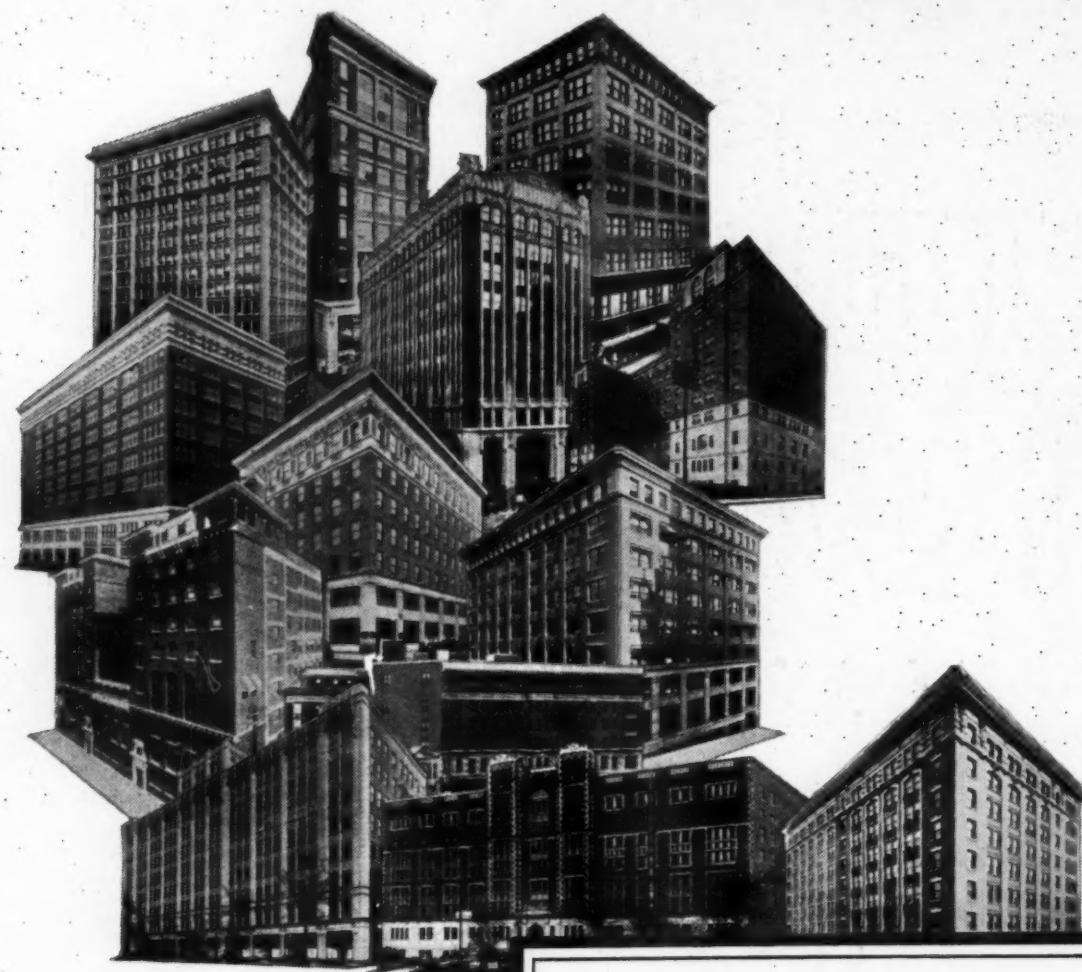
DEC 1926

THE ARCHITECTURAL FORUM



DECEMBER 1926

MEMORIAL BUILDINGS AND MONUMENTS REFERENCE NUMBER
PRICE \$2



Ideal gives noiseless and efficient daily service in these Cincinnati Buildings

One Responsibility for Ideal Elevator Hardware

There's all the difference in the world between *Ideal* elevator hardware and the ordinary kind. When hangers, checks, closers and inter-locks all bear the *Ideal* name, there's Complete Unit Control with One Responsibility for smooth, swift, silent, safe performance. Many of the finest modern buildings standardize on *Ideal* elevator hardware because it's everlastingly *certain* to be *wholly satisfactory*. Let us send you complete data for your files.

Richards-Wilcox Mfg. Co.
A Hanger for any Door that Slides

AURORA, ILLINOIS, U.S.A.

New York Boston Philadelphia Cleveland Cincinnati Indianapolis St. Louis New Orleans
Chicago Minneapolis Kansas City Los Angeles San Francisco Omaha Seattle Detroit
Montreal • RICHARDS-WILCOX CANADIAN CO., LTD., LONDON, ONT. • Winona





MEMORIAL HALL,

GEORGE WASHINGTON MASONIC NATIONAL MEMORIAL, ALEXANDRIA, VA.

HELMLE & CORBETT, ARCHITECTS

The ARCHITECTURAL FORUM

Volume XLV

DECEMBER 1926

Number 6

The Value of Memorial Architecture

By HARVEY WILEY CORBETT

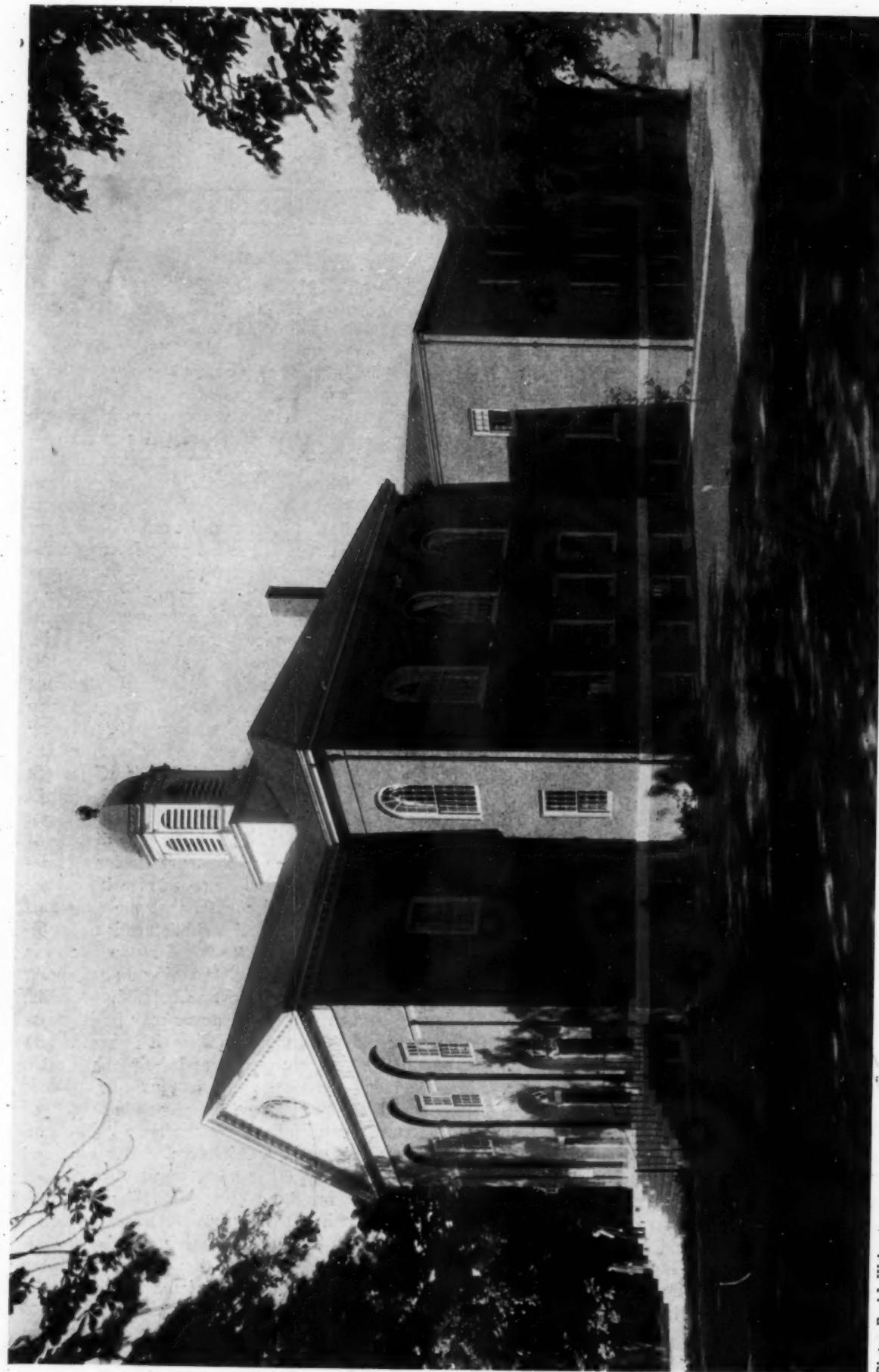
IN discussing the value of any particular type or kind of architecture, we are all likely to draw comparisons. We might say, for example, that motion picture theater architecture is more valuable than home architecture, because most people don't stay at home nowadays, but do go to the "movies";—that factory, office building or store architecture is more valuable than "movie" architecture because people must spend their working hours in some such building;—and then again, that people go to church only once a week (if that) and see a bit of memorial architecture only occasionally. If we make our comparison in terms of financial outlay, investment or productivity, we are again confronted with the thought that memorial architecture has the least value of any type. In fact, if we judge the matter on any commercial basis in this super-commercial age, we might very well ask ourselves why consider it at all, why think about it or, much less, why write about it.

Yet there are certain aspects of memorial architecture which demand very careful consideration. In the middle ages there were but two kinds of architecture,—domestic and religious;—the people lived in hovels and worshiped in cathedrals. The hovels were poorer than anything known today; the cathedrals greater than anything man can now produce. The material life of that time offered little that could be called attractive, and the spiritual life was the only compensating reward that poor humanity enjoyed. The home provided the bare necessities of existence,—hardly that, in fact. With the advance of civilization many relationships have changed. Material well being, comfort and cleanliness have replaced squalor, suffering and plague, and instead of only two kinds of architecture we have at least "57 varieties," all different, functioning to increase material happiness or worldly wealth. "Spiritual architecture" has an ever-diminishing rating on the ledger of modern life. Does this mean a diminishing value? Quite the contrary. Spiritual architecture, and in that we would include religious as well as memorial, as they are very much the same in purpose and should be classified together, is the last remaining bulwark of the soul of man. Instead of being of the least value, it is of the greatest. No type or kind of architecture is more important. No other form of building has

such vital significance, and certainly no other kind of architecture demands such study, such imagination, such vision. It is the one and only architecture in which the problem must be treated abstractly,—in which the message it carries is more important than the form, the material, the style, or even the use.

The problem from the architect's point of view is the most difficult, and therefore the most fascinating and alluring. Memorials are not built for a generation, to be "scrapped" when land values demand new and modern structures. The present-day architect, if he doesn't "pass out" in his early youth, lives to see many of his masterpieces torn down and rebuilt, generally by another man. But memorial work is different. Its spiritual significance defends it against the encroachments of a material age, and the man who has the opportunity of designing and producing in this field may feel fairly certain that coming generations will at least see it, and that if he does it well, if he holds strongly to the spiritual thought which inspired it, if he but carries the message, not alone by the graven word but also by the dignity of form and proportion, the refinement of color and detail, future generations will also admire his work!

It might be urged, of course, that the extent of what is here called memorial architecture is not sufficient to warrant its being developed by anyone as is done, for example, with the designing and planning of hotels, churches or apartment buildings. The designing of a memorial, whatever may be its character, comes to an architect (when it comes at all) as part of his general practice, and the problem must be solved and the work done just as a solution is found and attention given in any other type of architectural work. For there is, after all, no essential difference between architecture of this type and architecture of any other variety; the function of architecture, it has been said, is to "build beautifully," and architecture's purpose is served when a structure of any kind possesses inherent beauty, although perhaps there is need for rather more than usual care, thought and inspiration where memorial architecture is concerned. Since a memorial is likely to occupy a position of prominence, as has already been suggested, its very permanence creates an obligation to posterity which the architect will do well to heed.



PLYMOUTH MEMORIAL BUILDING, PLYMOUTH, MASS.
LITTLE & RUSSELL AND JOSEPH D. LEYLAND & CO., ASSOCIATED ARCHITECTS

Photos, Paul J. Weber



MAIN ENTRANCE HALL



SIDE EXIT FROM AUDITORIUM

PLYMOUTH MEMORIAL BUILDING, PLYMOUTH, MASS.

LITTLE & RUSSELL AND JOSEPH D. LEAND & CO., ASSOCIATED ARCHITECTS



MEMORIAL HALL



AMERICAN LEGION ROOM
PLYMOUTH MEMORIAL BUILDING, PLYMOUTH, MASS.
LITTLE & RUSSELL AND JOSEPH D. LELAND & CO., ASSOCIATED ARCHITECTS

Memorial Buildings

By EGERTON SWARTWOUT

THE title, I'm afraid, is a bit misleading. It might be confusing to the casual reader, if indeed there is a casual reader of architectural articles, or any reader at all for that matter; so let us start again in the subjunctive, and say that if there should be a casual reader, and if he should start to read this casually, he might, in his casual way, imagine that he would find here a complete historical dissertation on the subject of memorial buildings, with an indexed list and footnotes and references and pictures and, above all, evidences of painful research. Now that isn't my idea at all. I have only the vaguest kind of a notion of the historical side of it, and I have not the slightest intention of reading up the subject, for I particularly loathe painful research. Let us treat the subject in a different way.

All I intend to do is to ask a question and answer it myself, to my own satisfaction I hope, if not to that of the casual reader. And the question is:

Should buildings be erected as memorials, or rather, should memorials be buildings and not arches, or statues or fountains or shafts? A very simple sort of question, perhaps, but rather hard to answer to anyone's satisfaction; in fact I think the only answer is that there is no answer, and that it all depends on the subject to be memorialized and the type of building proposed. If it is the intention or the testamentary obligation to commemorate the industrial capacity and business acumen of a highly successful manufacturer, say of Chiclets or Esquimo Pie, I can imagine that there might be built, in close proximity to the factory of the deceased, a neat Pompeian swimming pool or an early English billiard parlor, or an entirely modernesque hall for movies and a place of meeting for the social activities of the local Rotary Club. Or I can imagine the very proper and appropriate erection of a gymnasium or a baseball cage or swimming pool as a memorial to



Elks' National Memorial, Chicago

Egerton Swartwout, Architect, J. Hollis Wells, Advisory Architect



DETAIL, MEMORIAL HALL, ELKS' NATIONAL MEMORIAL, CHICAGO
EGERTON SWARTWOUT, ARCHITECT; J. HOLLIS WELLS, ADVISORY ARCHITECT



ELKS' NATIONAL MEMORIAL, CHICAGO
EGERTON SWARTWOUT, ARCHITECT; J. HOLLIS WELLS, ADVISORY ARCHITECT



Detail, Tennessee War Memorial

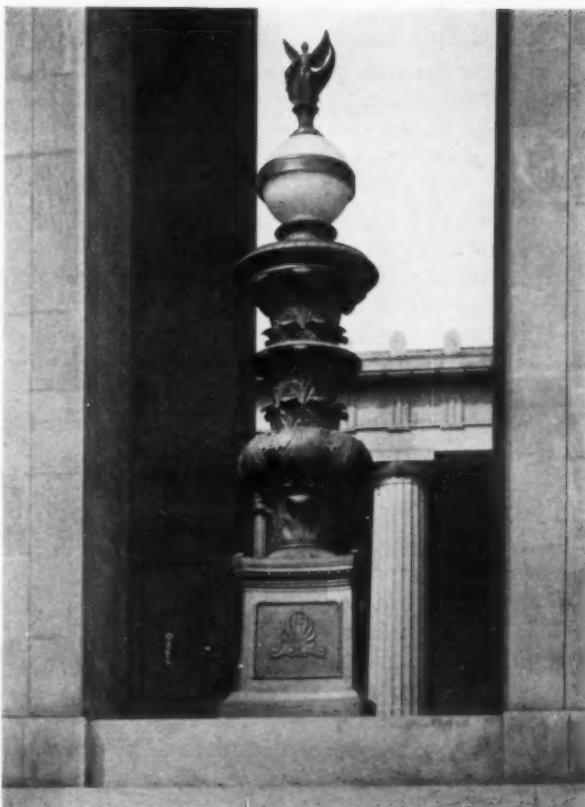
some distinguished athlete who has been an honor to his university or college or school, as for instance the skating rink built as a memorial to "Hobey" Baker at Princeton. Or again a family, wealthy enough to do it properly, might well build a much-needed college building as a memorial to a son who was an alumnus; I can imagine a number of instances in which buildings would be appropriate, but I cannot imagine the erection as a memorial, whether by a state or municipality, of a strictly utilitarian building which should properly be paid for by taxation.

In some good sized town, for example perhaps, there is a proposition on foot to erect a memorial to the men of the town who were killed or were wounded or who served in the Great War. Quite a respectable sum has been raised by subscription, and a happy idea strikes some of the city fathers. They need a new high school, or a town hall, but they don't want to raise the tax rate; it is not good politics to raise the tax rate; hence the great idea. Let us, say the city fathers, build this school or this town hall as a memorial; under the guise of a memorial, that is, really; let us incorporate in the building an auditorium with a tablet of names somewhere, and perhaps a statue, or at least some sculpture about it. How much better, they say, to do some good for the people; how much more practical this would be than to put up a shaft or a statue or some such gimcrack. And the deed is done. There

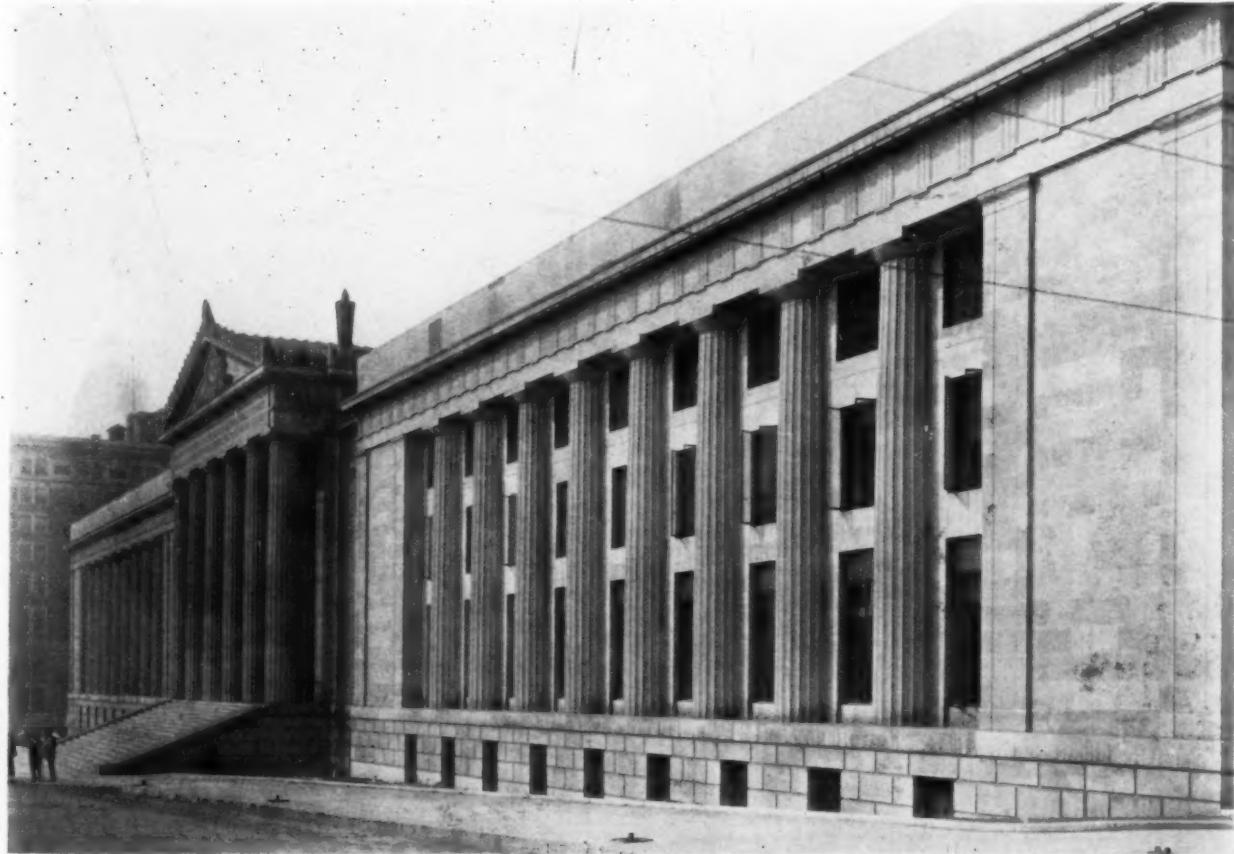


Minor Facade, Tennessee War Memorial, Nashville
Edward Dougherty and McKim, Mead & White, Associated Architects

is a town meeting at which much is said of patriotism and of modern common sense and practicability, and the good of the dear people, but no open allusion is made to the non-increase of the tax rate; that is done by a whispering campaign. And so the school or town hall is built as a memorial, and there is an impressive ceremony at the corner-stone laying and another at the dedication; patriotic speeches by distinguished military and political personages; the band plays, and flags are plentiful, and then—the school in a year or so is just known as the Elm Street School, and the memorial town hall has become merely the offices of the mayor or the common council, and the auditorium is used for movies or an occasional town meeting. No one passing through the place would ever imagine either building was a memorial! The townspeople themselves have forgotten there was a memorial. The flags are gone and the band is gone, and the inscriptions on the tablets are nearly obliterated by dust and neglect. The memorial idea is forgotten, not because of any lack of feeling or of patriotism, but because we as a people are likely to forget quickly unless we have some visible and beautiful object to awaken our remembrances. Suppose, for example, those in charge of the Washington Monument had decided to build a new wing to the capitol instead of the majestic shaft which is now the center of the mall treatment. It would have been a practical thing, to be sure, but



Detail, Tennessee War Memorial



Main Façade, Tennessee War Memorial, Nashville
Edward Dougherty and McKim, Mead & White, Associated Architects

who in 50 years, or in five years either, would have remembered the saving to the tax payers, or who would know that the new wing was a memorial?

Generally speaking, no memorial, if it is to be a real memorial, can serve any useful purpose; or to put it in another way, no structure can serve two purposes. It is either a memorial of some great act or sacrifice or of some great man, or else it is merely a school or a town hall. There can be no half way, and yet on the other hand it is conceivable possible to introduce in a distinctively memorial building certain subordinate features that may be of a practical nature. I hesitate to take as an example a building of my own, but as I have said before, I have no time or inclination to do any research for material. I perchance take what is at hand. There are, I'm quite sure, many other more appropriate examples and better buildings, but as a concrete example the Elks' Memorial in Chicago will serve. This building is a national memorial to those members of the order who have served in the World War, and the feature of it is a great memorial hall, circular in form with a domical treatment; the interior is of richly colored marble and of bronze, decorated by distinguished artists with mural and sculptural decorations which are in progress but not yet in place. There are, in addition, three other monumental rooms which serve as retiring rooms or anterooms. It is so far all monumental, and serves no utilitarian purpose. It is not intended as a meeting place or hall of any

kind; there are no lodge rooms. In the side wings, however, there are certain utilities; the grand secretary of the order has his permanent offices in one wing, and in the other are the headquarters of the Elks' Magazine, but they are quite separate from the monumental part of the building and have their own exterior entrances. They are treated frankly as accessories and do not interfere with the monumental appearance of the structure and, as it is generally seen from the front, the wings count as pylons rather than as utilitarian buildings; the basement windows have ample light but are completely hidden by the terrace wall; the domical central mass, the circular colonnade, the piers of the subordinate order screening the court, the great niches, and the steps and terraces, all these suggest to the passing stranger that here is a memorial to somebody or something, and he generally reads the inscription to find out just what it is. He may not like it architecturally, he may prefer a square to a round, but still he has no doubt of its character. At least that's the way it seems to work out actually. But enough of the Elks' Memorial. I only mentioned it as an example.

And this is my thesis. I have tried to show in a few words that under certain circumstances memorials can be practical buildings and still retain their monumental character, and that in many cases they cannot. I have put a question and tried to answer it, and if the casual reader doesn't like the answer, he may write his own version. It is a matter of opinion.



Details, Memorial Hall, Elks' National Memorial, Chicago
Egerton Swartwout, Architect; J. Hollis Wells, Advisory Architect



Memorials—Columns, Shafts, Cenotaphs and Tablets

By PAUL P. CRET

BEFORE we consider particularly the types of monuments grouped in the heading of this page, it should be remembered that the class of architecture which may serve the purposes of commemoration is large. Almost any type of architectural work can be given a commemorative character, and plazas like the Place Vendome, or the Place de la Concorde, built to commemorate the two kings, Louis XIV and Louis XV respectively; fountains, like those in Rome built by the popes; hospitals, libraries, auditoriums and bridges are examples of a very large number of memorials in which provision for public utility or enjoyment is included in the design. While utility may undoubtedly be an advantage that need not interfere with the essential requirements of any work of memorial architecture, it seems obvious that in a memorial the end to be achieved, primarily, is the perpetuation of the mem-

ory of a great man or a great event to future generations. This object being granted, it follows that permanency and a clear and arresting expression of the commemorative idea are essentials of the program; and that the most appropriate memorial is that which may best withstand the changes of centuries, and by the beauty and dignity of its design arouse to attention and respect the heedless mind of the wayfarer and that of the wayfarer still to come.

Tested by their fulfillment of these basic requirements, a number of our memorials, despite their present popularity, must be classed as of doubtful value. The memorial trees or groves in our public squares and parks, for instance, can hardly be regarded as fitted for long survival, and many of the auditoriums, libraries and convention halls which fill the land fall short both in point of permanence and in the expression of the commemorative idea.



Battle Monument, West Point, N. Y.

McKim, Mead & White, Architects



Monument to Steel, Sesqui-Centennial Exposition,
Philadelphia

The construction of some of these buildings, in the first place, though adequate certainly for ordinary use, is not often of a sort to stand the wear of centuries; and, secondly, the constant changes in the requisite programs render them quickly antiquated; lastly, the commemorative idea is very frequently lost sight of in the utilitarian, so that thought of the man or the event to whose glory a building has been erected may well be the last that comes into the minds of the people who pass in and out of its doors.

We, perhaps no less strongly than did our forefathers, feel the desire of keeping alive the memories of our great men and of our patriotic achievements, but how much of our building will bear testimony, five hundred years from now, to our spiritual life of today? The earlier civilizations knew better how to apportion effort to the result to be achieved. If their commercial and domestic buildings were not designed to last for more than a few generations, and have in consequence almost entirely disappeared (but for the exceptional case of Pompeii), their memorial and civic architecture is still standing because they wanted it to stand, and so gave to it all



Photo, Underwood & Underwood

The Battle of Princeton Monument, Princeton, N. J.

Frederick MacMonnies, Sculptor

their skill in design and construction. Thus our knowledge of the architecture of antiquity has come down to us through its finest forms, and to this perhaps the glamour of the past is in no small part due. Does our belief in "utility,"—however temporary that utility may be,—denote a spirit superior to that which inspired the apparent extravagance of the Egyptians or the Roman builders, who, intent upon conquering time, were willing to pay the price required, or does it bear witness only to a mean and short-sighted parsimony? But this is not the place for such a discussion. Suffice it to say that a work of commemorative architecture which has little chance of enduring is hardly worthy of the name.

Among the important forms of this class of architecture, designed solely to commemorate men or events, are shafts, arches, cenotaphs, tablets and columns. Such types have been in use from the earliest times, and their tradition is all but as old as man's own hope of immortality. The shafts and obelisks have inherited from their common ancestor, the sacred upright stone, a rugged strength which seems to defy the elements; the Egyptian obelisks testify



The Patriots' Monument, Stamford, Conn.
George Freeman, Architect



Photo, Underwood & Underwood

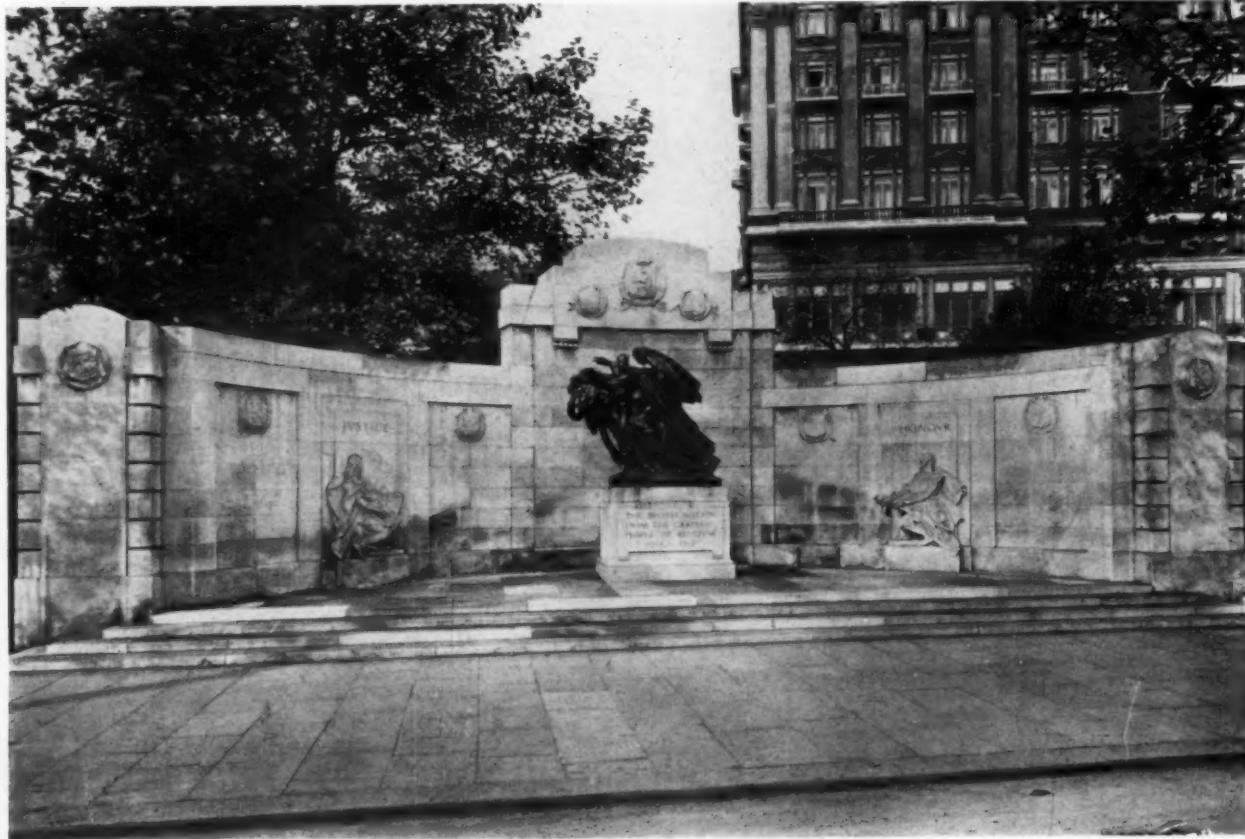
War Memorial at Harrogate, England



Memorial to the Employees of the Midland Railway
Sir Edwin L. Lutyens, Architect

to us of the splendor of royal dynasties of 40 centuries ago, whether they are at present in their birth-land, Egypt, or in London, Paris, Rome or New York. This form is particularly effective in large monoliths. The Egyptian obelisk measures on the average 75 feet without the base, and has slightly convex sides. The pocket editions in our cemeteries, and the "monumental" versions with intricate pedestals and "heroic" sculpture are decidedly not an improvement on the original form, and the inscriptions, easily accommodated in the vertical writing of the Egyptians, have now to be confined to the pedestals. But there are fine examples of the later types in Italy and France, and of the modern in the Washington Monument, this last a satisfying example.

Columns have been still more popular as commemorative monuments. It is in vain that the purists have protested against the use of a support independent of the thing to be supported, or with some reasoning to that effect. The Greeks, who were pretty good judges in such matters, set the pernicious precedent, none the less, and the Romans and moderns have followed. It has merely added another example to the long list of constructive elements turned into decorative types. When a constructive form has through successive improvements become beautiful, it is not long before the idea of its original use is lost sight of, and the beautiful form is used more or less for itself. The city gate then becomes the triumphal arch, the pediment a door-crowning motif,



The Belgian Memorial, Thames Embankment, London
Sir Reginald Blomfield, Architect
M. V. Rousseau, Sculptor

and an order becomes the jamb of a mantelpiece. Thus the Greek column becomes the votive column, and from it have been evolved the Column of Trajan or Duilius in Rome, the columns of the Place Vendôme and of the Place de la Bastille in Paris, the column of the prison ship martyrs in Brooklyn, and the memorial column at West Point. These few examples among the thousand that exist are sufficient at least to convey the suggestion that the individuality of the artist, to assert itself, has no need of any brand new theme. The architect of tomorrow may find in the good old program of the commemorative column an opportunity for work just as characteristic of his times as the examples we have cited are vividly characteristic of their own periods. There is no time-worn theme, but only time-worn ways of treating it as well as methods which are fresh and new.

The cenotaph is a form of memorial that has been less often used in this country than in Europe, especially in the Europe of the Renaissance. As its name implies, it is a memorial monument in the shape of a tomb, but which does not receive the remains of the man to whom it is erected. The tomb proper was usually near by,—under the pavement of the church, for instance, where the cenotaph stood against the wall. The Romans have left us such a number of fine examples of this type of memorial that the following generations have been satisfied with variations of one or another of their designs. All the churches of Europe have beautiful examples of the



War Memorial, Calcutta
John Greaves, Architect



War Memorial, Milton, Mass.
Coolidge, Shepley, Bulfinch & Abbott, Architects
Daniel C. French, Sculptor

cenotaph, and among the recent we can mention the Cenotaph at Whitehall, the work of Sir Edwin L. Lutyens. The main element in this austere type of memorial is the empty sarcophagus, and perhaps a reason for its disfavor among our contemporaries is their aversion to so direct a reminder of death, even when it is closely associated with the idea of immortality. Stern suggestions are losing favor with the modern public. Everything must be made pleasant.

The inscribed tablet is today the most widely and favored form of memorial. It may be as inexpensive as is desired, a place for it is easily found, and it has at least the permanency of the building to which it is attached. If it does not attract attention as readily as do some of the forms we have already described, it tells its story no less completely. A large part of our knowledge of many civilizations is in fact derived only from such inscriptions; 30,000 or 40,000 Greek inscriptions have been catalogued, and the number of Roman inscriptions is much larger,—which speaks well for the tablet as an enduring form of memorial. It should be said in passing, however, that bronze tablets have shown a bad habit of disappearing in times of crisis, whether during the invasions of the barbarians at the time of the fall of the Roman Empire, or the invasions of northern France during the World War. Of the treatment of the tablet, it should be said that over-crowding the lines is a fault; the text must be written in such a way as to lend itself to harmonious distribution. To such apparently simple work as much talent can be devoted as to the most ambitious and worthy building. The iconography may play an important part, as may be seen in the Shaw Memorial in Boston, or the text can be the dominating feature, as in the Gettysburg Speech Tablet in the Lincoln Memorial.

These forms which we have considered in some detail are, as we have said, far from being the only types of memorial architecture, and if they have received special attention, it is because they are representative of the commemorative purpose in the strictest sense. In these works, which even in their strongest and noblest examples are but frail symbols of man's eternal hope to secure his glories and perpetuate his memory to future generations beyond the grasp of time, utility is, perhaps, best subordinated to beauty and simplicity of form, and to that reverent care in execution for which even time shows respect.



Perry Memorial Arch, Bridgeport, Conn.
Henry Bacon, Architect

26
DECEMBER, 1926

THE ARCHITECTURAL FORUM

PLATE 61

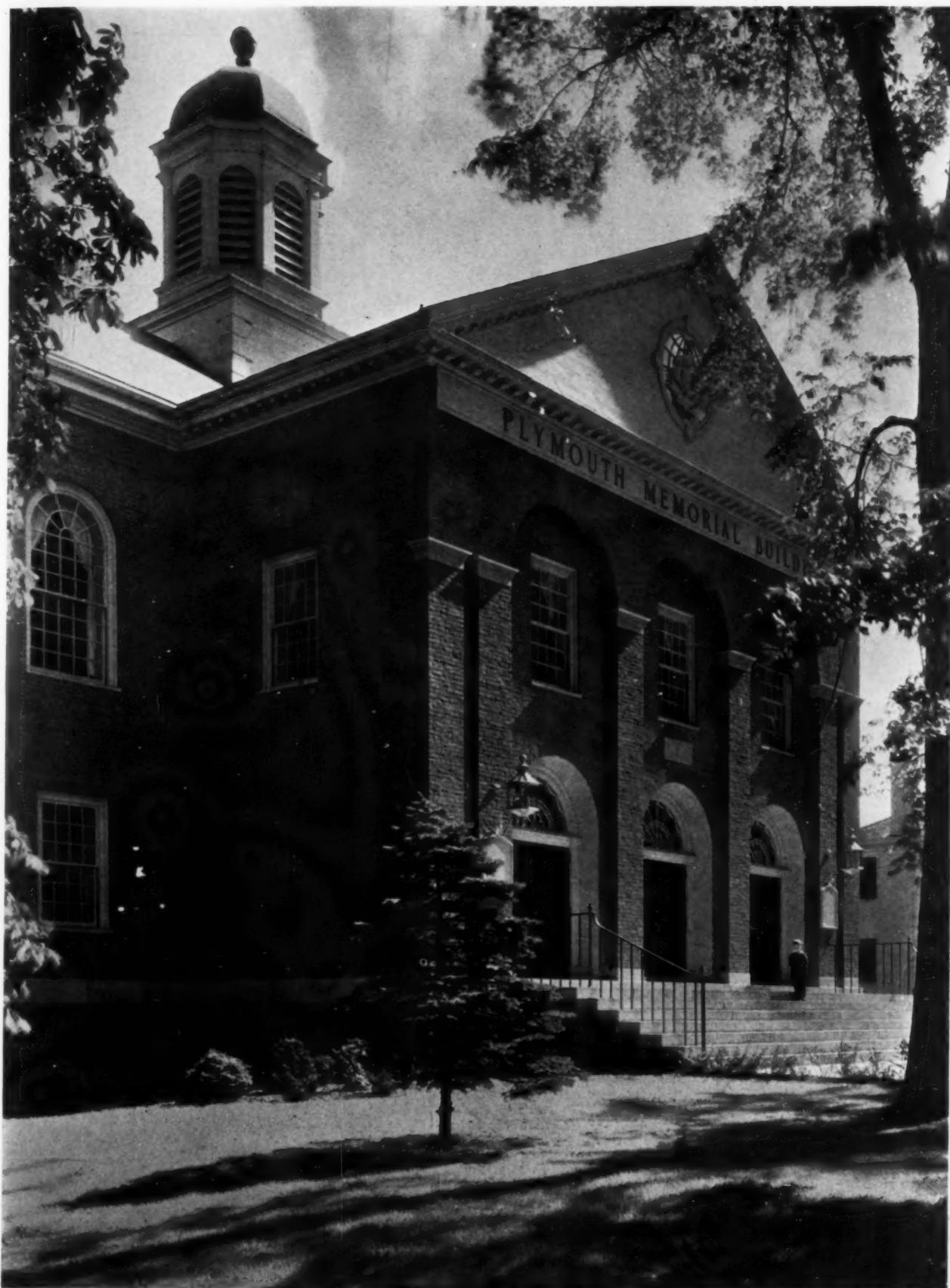


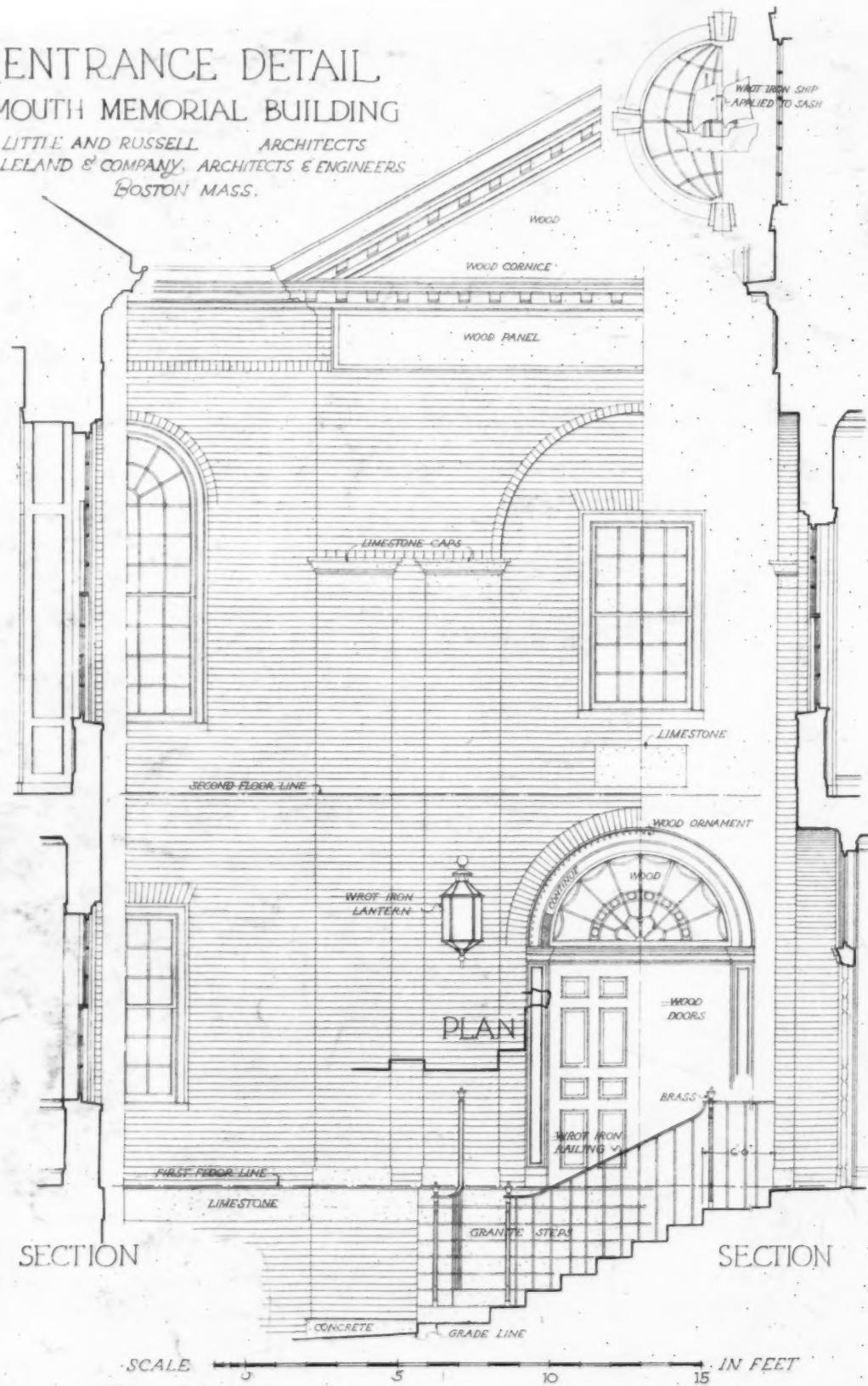
Photo. Paul J. Weber

DETAIL, PLYMOUTH MEMORIAL BUILDING, PLYMOUTH, MASS.
LITTLE & RUSSELL AND JOSEPH D. LELAND & CO., ASSOCIATED ARCHITECTS

Measured Details on Back

ENTRANCE DETAIL
PLYMOUTH MEMORIAL BUILDING

LITTLE AND RUSSELL ARCHITECTS
J D LELAND & COMPANY, ARCHITECTS & ENGINEERS
BOSTON MASS.



DEC.
1926

SCALE 0 5 10 15 IN FEET

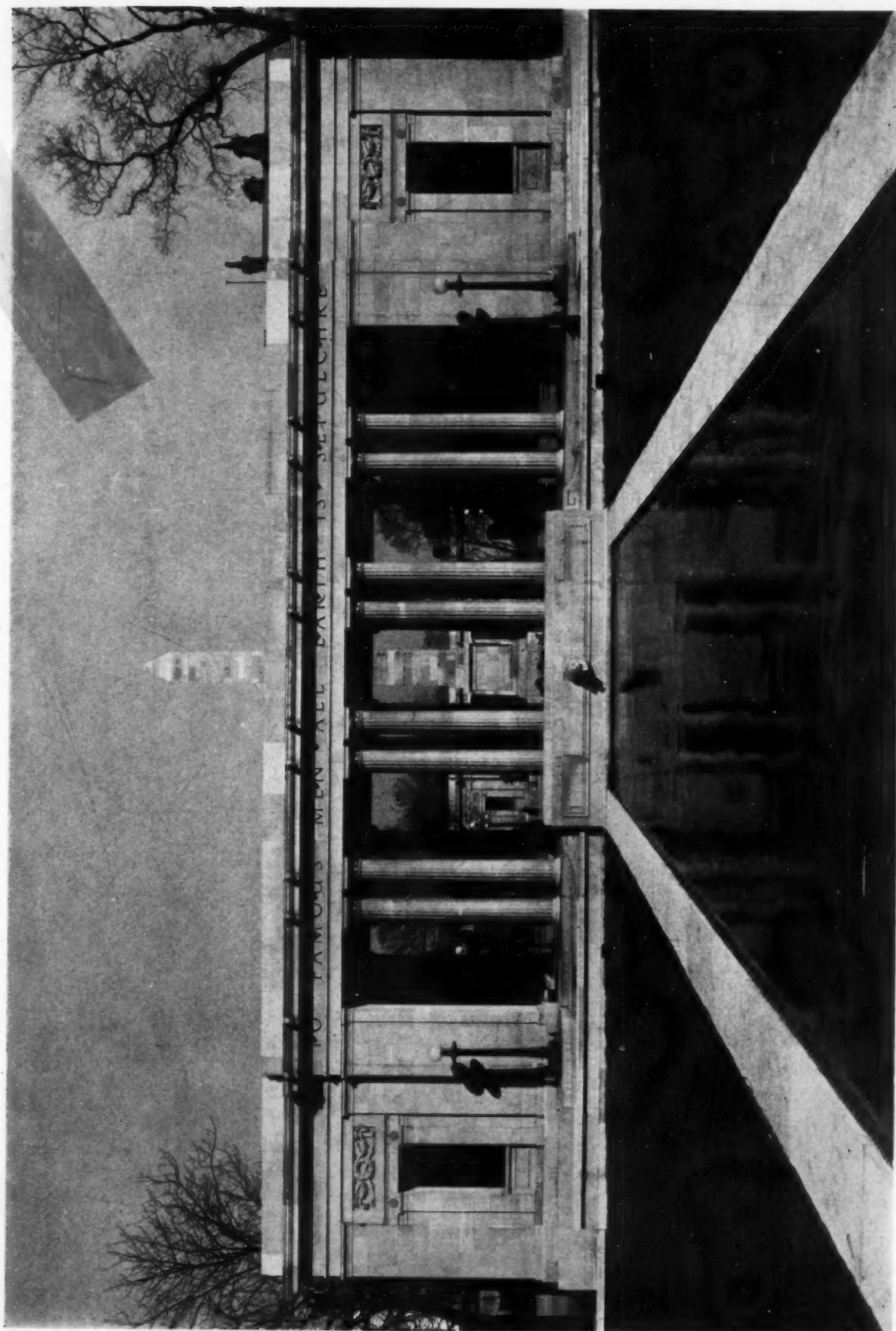
NO.
14

The ARCHITECTURAL FORUM DETAILS

DECEMBER, 1926

THE ARCHITECTURAL FORUM

PLATE 82



WAR MEMORIAL, SOUTHPORT, ENGLAND

✓ GRAYSON & BARNISH AND A. L. MacMILLAN, ASSOCIATED ARCHITECTS

DECEMBER, 1926

THE ARCHITECTURAL FORUM

PLATE 63



DETAIL, WAR MEMORIAL, SOUTHPORT, ENGLAND
GRAYSON & BARNISH AND A. L. MacMILLAN, ASSOCIATED ARCHITECTS



DECEMBER, 1926

THE ARCHITECTURAL FORUM

PLATE 84



Photo, George H. Van Anda

WAR MEMORIAL, RIDGEWOOD, N. J.
HENRY BACON, ARCHITECT; HENRY HERING, SCULPTOR



DECEMBER, 1926

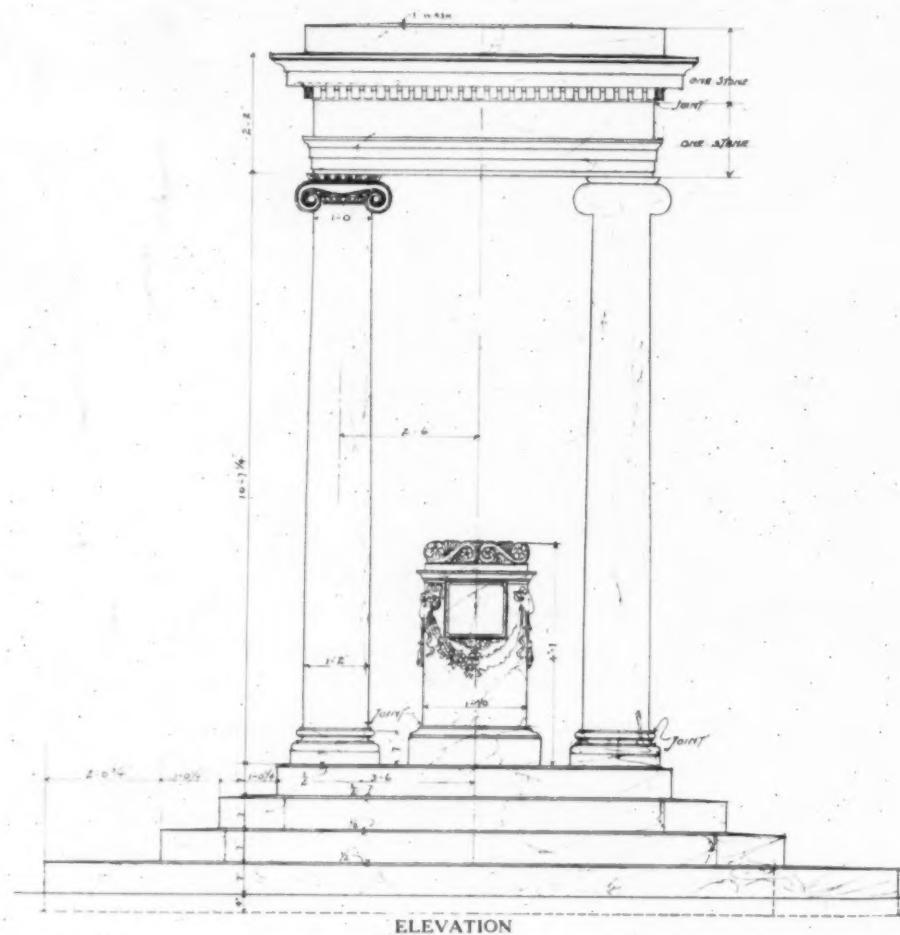
THE ARCHITECTURAL FORUM

PLATE 65

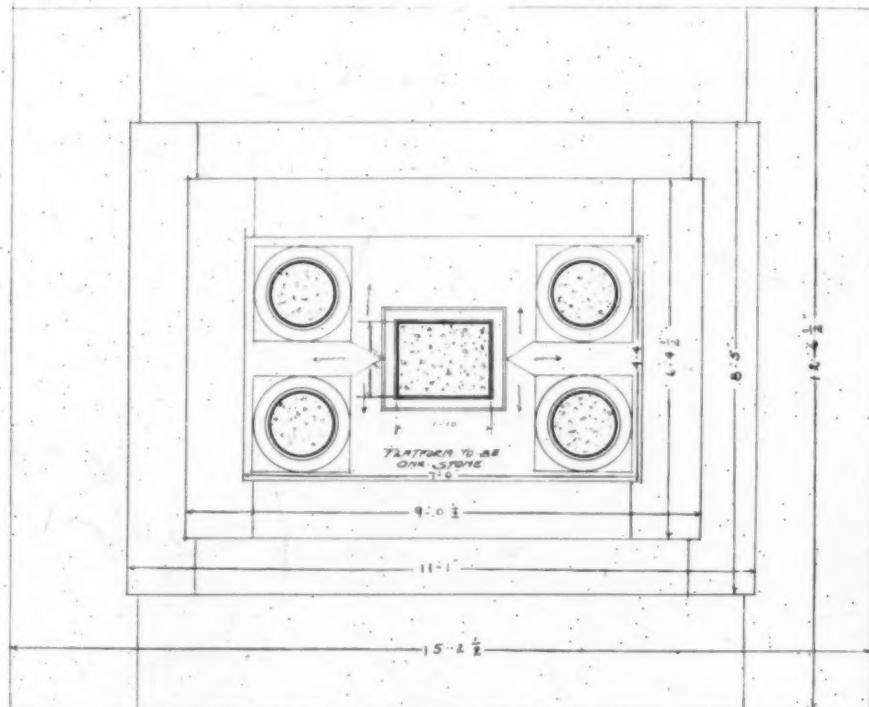


Elevation and Plans on Back

MEMORIAL TO AUGUSTUS ST. GAUDENS, CORNISH, N. H.
DESIGNED BY HENRY HERING, SCULPTOR
McKIM, MEAD & WHITE, ARCHITECTS



ELEVATION



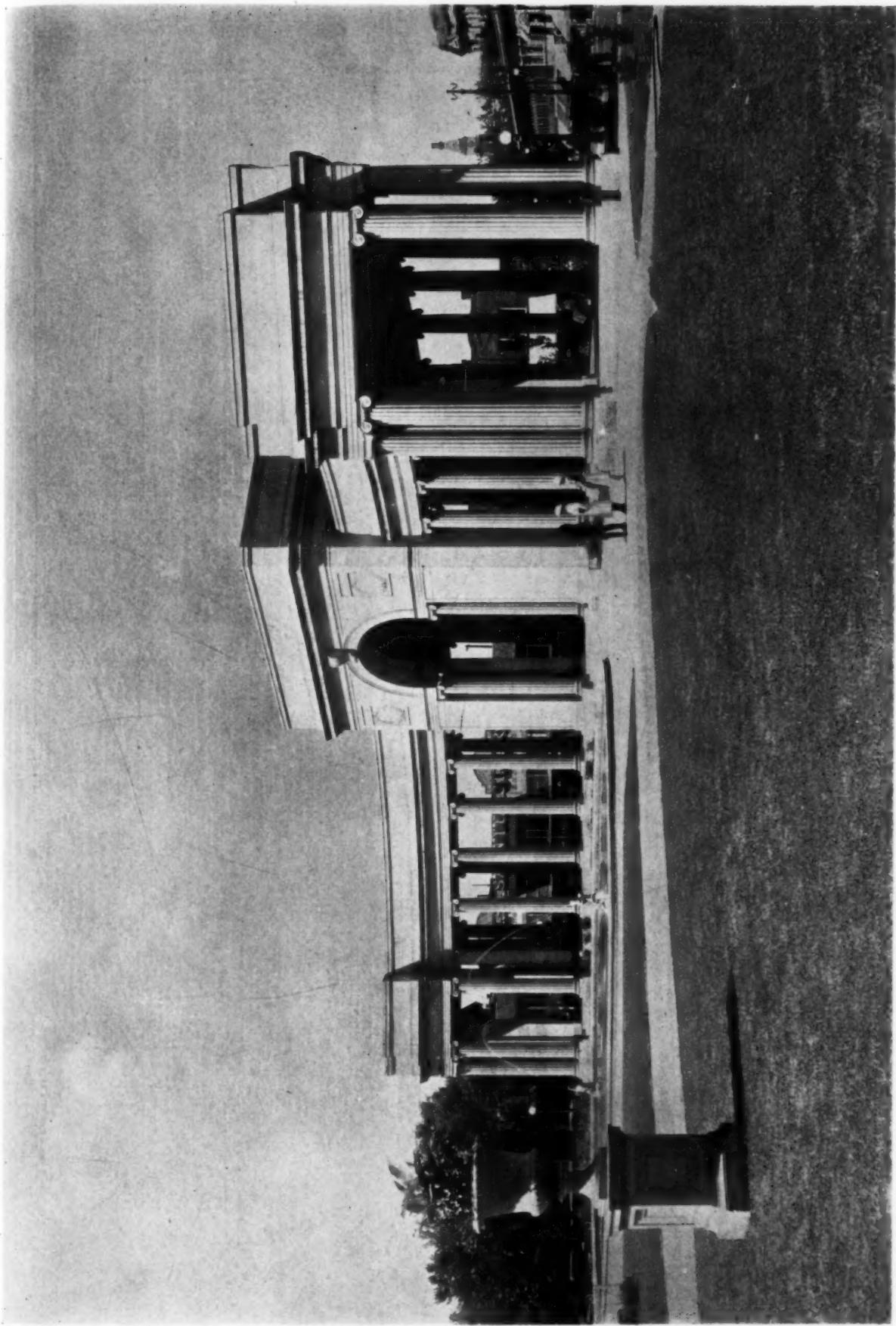
PLAN

MEMORIAL TO AUGUSTUS ST. GAUDENS, CORNISH, N. H.
DESIGNED BY HENRY HERING, SCULPTOR
McKIM, MEAD & WHITE, ARCHITECTS

DECEMBER, 1926

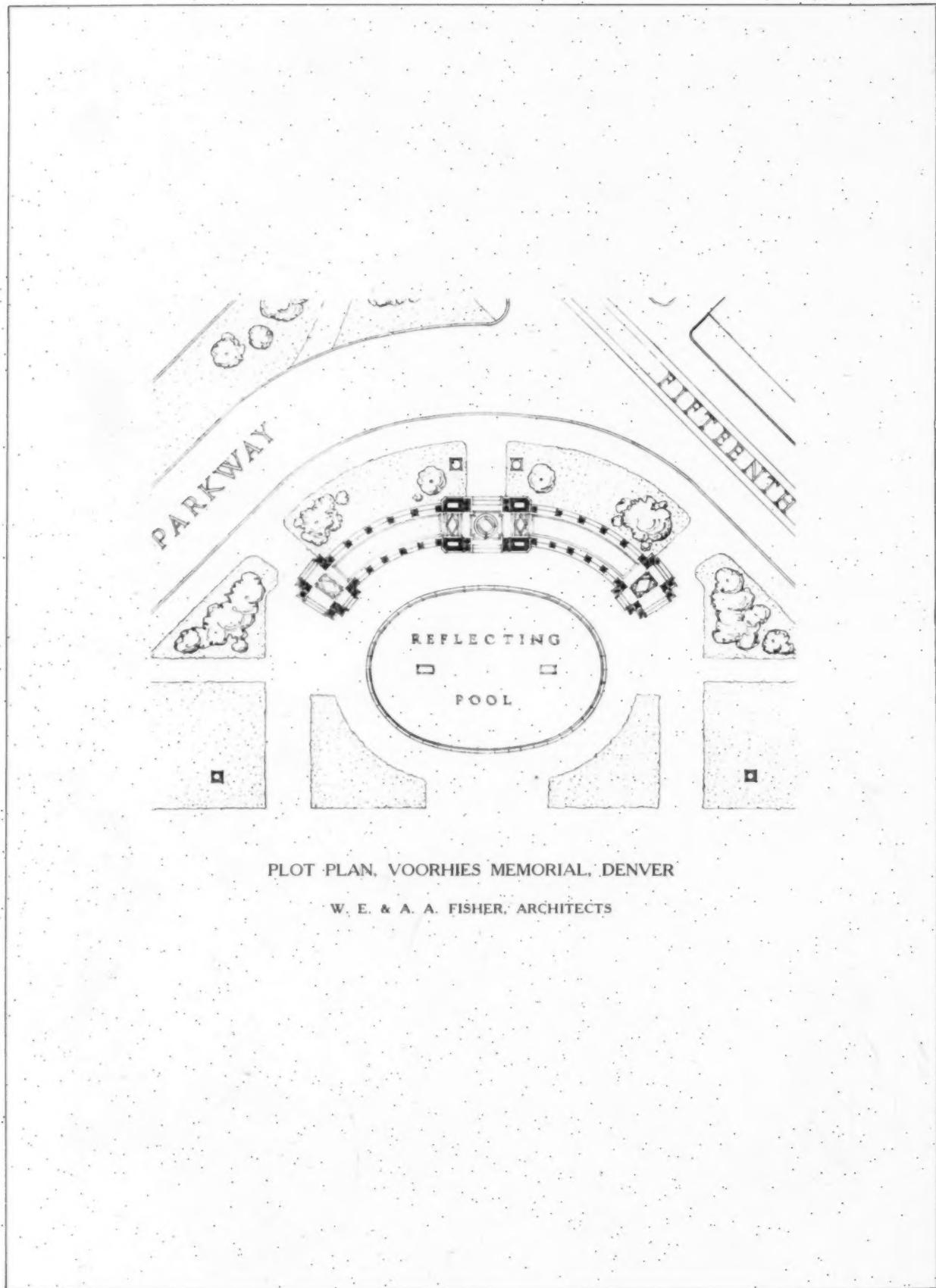
THE ARCHITECTURAL FORUM

PLATE 86



Plan on Back

VOORHIES MEMORIAL, DENVER
W. E. & A. A. FISHER, ARCHITECTS



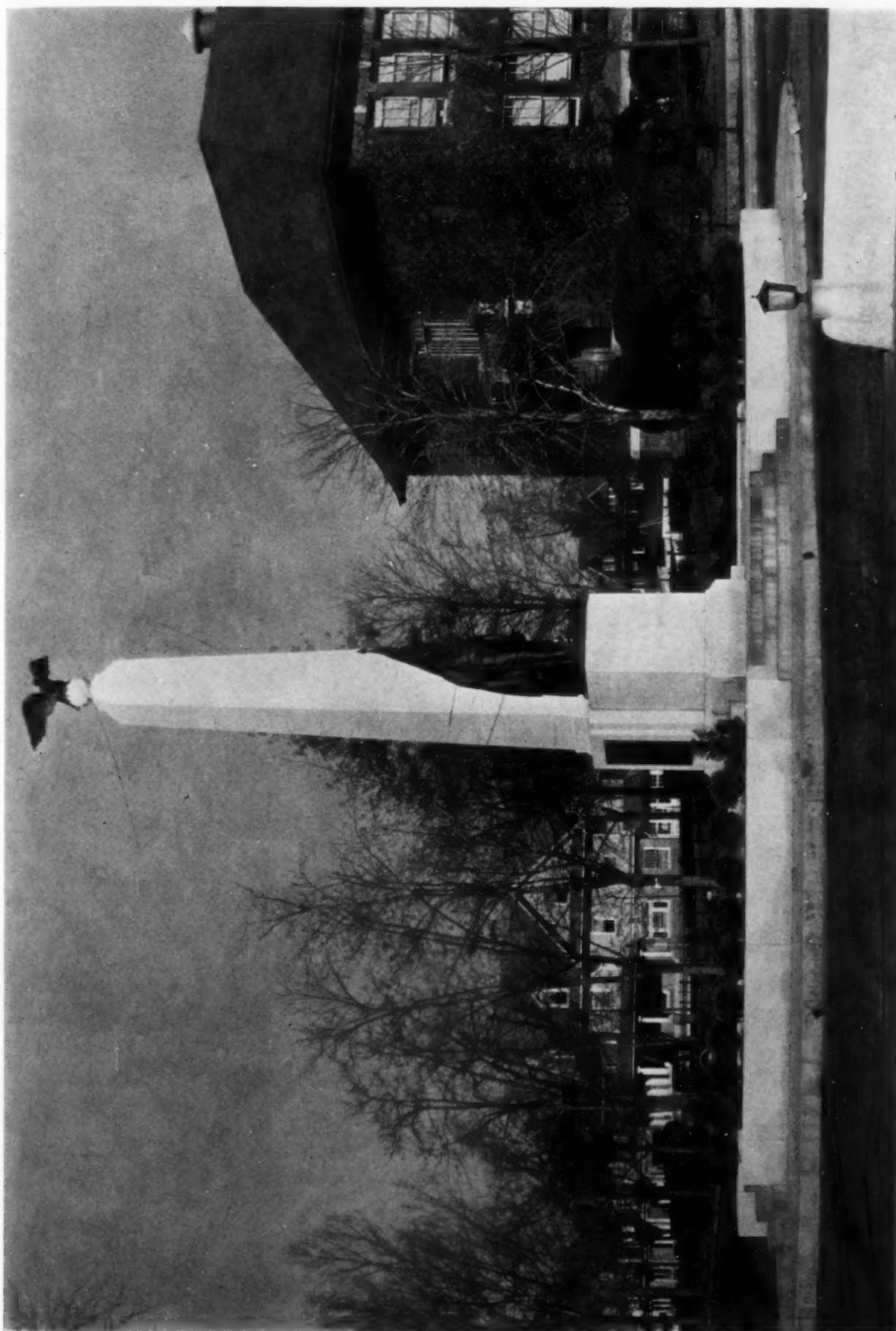
PLOT PLAN, VOORHIES MEMORIAL, DENVER

W. E. & A. A. FISHER, ARCHITECTS

DECEMBER, 1926

THE ARCHITECTURAL FORUM

PLATE 87



Photo, George H. Van Anden

WAR MEMORIAL, ENGLEWOOD, N. J.

KENNETH W. DALZELL, ARCHITECT; HARRY LEWIS RAUL, SCULPTOR



DECEMBER, 1926

THE ARCHITECTURAL FORUM

PLATE 88



Photo. George H. Van Anda

WAR MEMORIAL, NEW ROCHELLE, N. Y.
EDMOND T. QUINN, SCULPTOR; LOUIS METCALFE, ARCHITECT



✓ Bridges as Memorials

By WILLIAM EMERSON

WHAT are the essential characteristics that should find expression in every memorial? Not to put too fine a point upon it, shall we not answer,—durability, serviceability, and beauty?—durability, expressing the material aspect, as does beauty the spiritual, while serviceability introduces that human relation, without which a memorial can never be enduring, withstanding the changes of time.

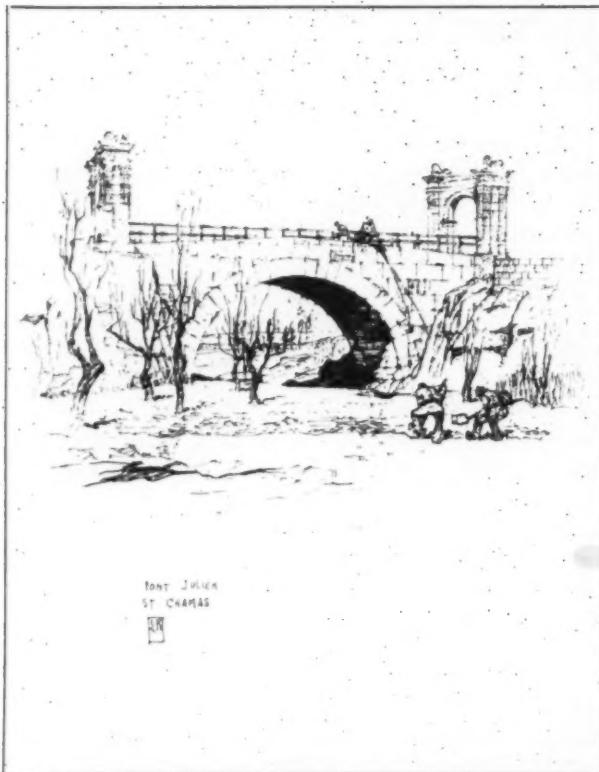
Does not each of these characteristics find convincing expression in the masonry bridge? Surely its material is durable; time only mellows and adds beauty of color and texture to the original beauty of line. As for serviceability, it is one of the inherent characteristics of a bridge. The bridge is indeed essential to the daily life of both highway and river, whose different uses it serves, helping the one without hindering the other. Beauty, perhaps, is less definitely associated in our minds with the characteristics of a bridge than is either durability or serviceability. That the lack of this last quality is more the fault of our times and our ignorance than of any inherent inappropriateness to the nature of the bridge, is what I shall try to demonstrate. In so doing I hope further to convince the reader of the peculiar suitability of a bridge when established as a memorial.

Lest what follows may appear to have no more weight than a purely personal opinion, and in order that one may agree with me as to the beauty of the bridges that have come down to us from other centuries, let me quote the loving appreciation that M. Victor Laloux, *Membre de l'Institut* and dean of French architects, expressed in regard to the architectural beauty of the bridges of France: "Perhaps there is nothing surprising in this, for does not the very essence of architecture, whether we are intimately or only generally acquainted with it, lie in this haunting quality of beauty? Is there a single constructive problem that the talent of the designer cannot, at a given moment, develop and embellish to the point of profoundly moving us?" And again: "The conscience, talent, and taste which a man like the Burgundian Gauthey has brought to the solution of the most elementary bridge problems, such, for example, as those in the suburbs of Auxerre and of Chalon, show better than any mere theorizing that the purely utilitarian character of a programme imposes upon the constructor neither indifference nor vulgarity." The architect's supreme effort is demanded.

The quality of beauty in these old structures has won recognition from other generations as well.



Old Bridge at St. Generoux, Poitou



Roman Bridge at St. Chamas

Drawn by Louis C. Rosenberg for "Old Bridges of France,"
Press of the American Institute of Architects

Jean Jacques Rousseau was so moved by his visit to the Pont du Gard that he thus expressed himself: "It was the first work of the Romans which I had seen. I hoped to see a monument worthy of the hands that had raised it; and for the first time in my life my expectations were surpassed by the reality. It belonged only to the Romans to produce such an effect. The aspect of this simple and noble work struck me all the more that it was in the midst of a desert where the silence and solitude increased the effect. . . . I walked along the three stages of this superb construction with a respect that made me almost shrink from treading on it. The echo of my footsteps under the immense arches made me think I could hear the strong voices of the men who had built it. I felt lost like an insect in the immensity of the work. I felt, along with the sense of my own littleness, something nevertheless which seemed to elevate my soul: I said to myself, with a sigh—'O that I had been born a Roman!' I remained several hours in this rapture of contemplation. I came away from it in a kind of dream, and this reverie was not favorable to Mme. de Larnage (the latest of the numerous objects of Rousseau's sentimental attachments). She had been careful to warn me against the attractions of the young women of Montpellier, but not against the Pont du Gard. One cannot think of everything." Thus the old Roman Pont du Gard!

What is it, then, that gives these bridges of Eu-

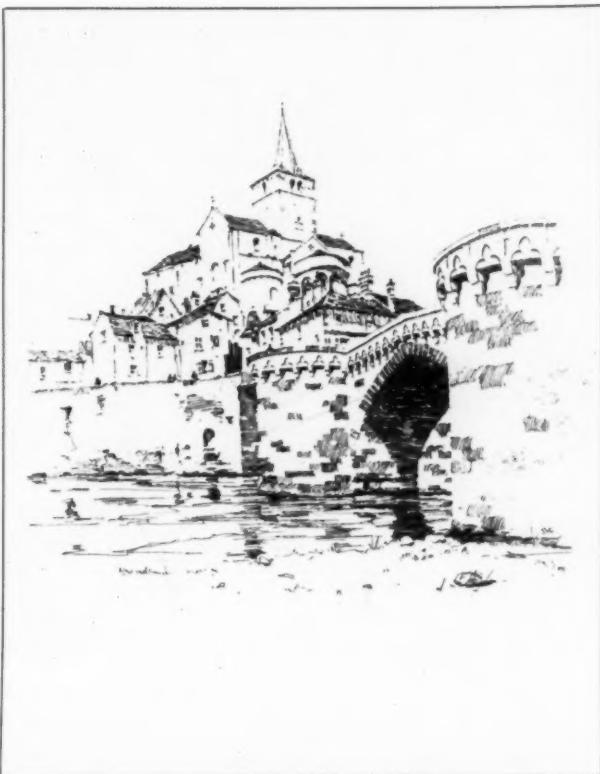


© Compagnie Aérienne Française

Île de la Cité, Paris, Showing Connecting Bridges
Pont Neuf at lower left

rope a quality, a spirit, a personality, that with rare exceptions seems lacking in those of our own time and country? Why do the very stones and lines of their compositions inspire our imagination and satisfy our eyes? It is, to my thinking, not alone the historical associations that they recall, nor is it the skill with which they meet the practical purposes that they are intended to serve; but rather, that while meeting the needs of the pedestrian above as well as the boatman below, they are conceived with so true and inherent a love of beauty that they have been thus glorified into masterpieces that are the delight of the centuries,—enduring memorials to the sincerity, ability, and instinctive love of beauty that animated the original builders, but often wanting today.

Let us look at some of the great bridges that the world has inherited;—Spain, France, Italy, Syria, Africa, China,—these and many other countries glory in such treasures; not constructed as memorials, it is true, but built beautifully to meet the needs of their civilization, and lasting today as a lesson from which we might derive infinite profit and delight, but which we tend to ignore. In almost every one of these countries it is the hand of mighty Rome that we recognize. Roads and bridges, waterways and aqueducts, were essential to her Empire building, but lasting beauty was ever a part of the enduring workmanship with which these monuments of her progress were built. There can indeed be no denying



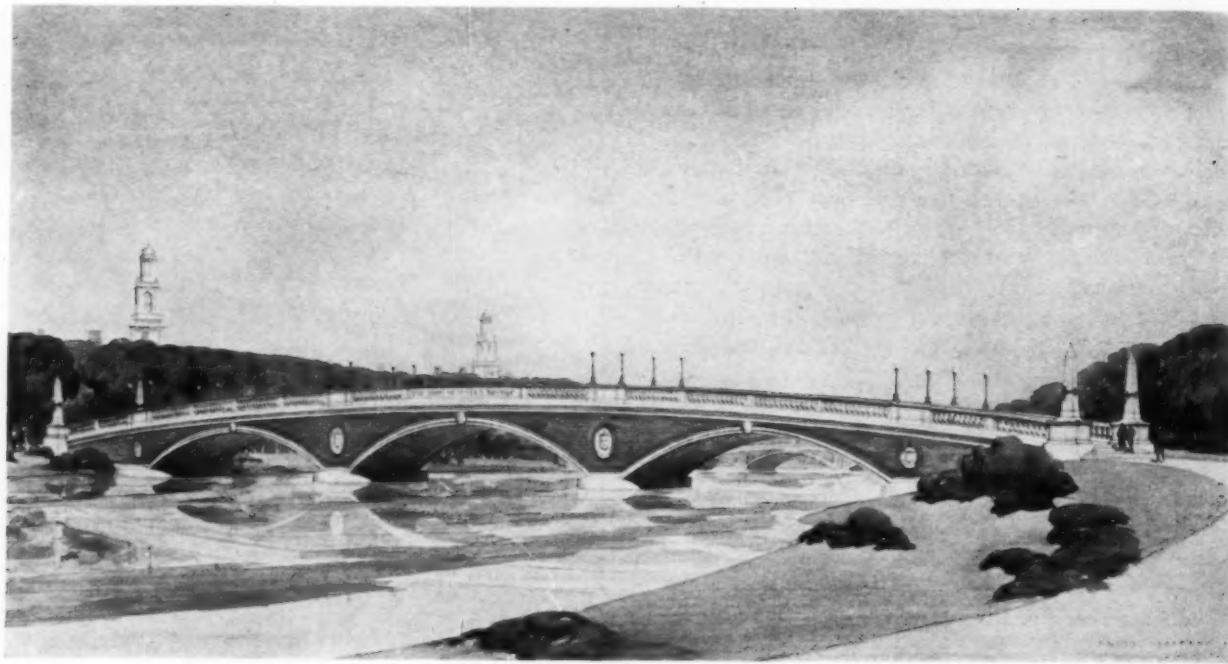
Old Bridge at Montmorillon

Sketch by S. V. Chamberlain for "Old Bridges of France,"
Press of the American Institute of Architects



© Compagnie Aerienne Francaise

Pont du Gard, Remoulins



John W. Weeks Memorial Bridge, Cambridge, Mass.
McKim, Mead & White, Architects

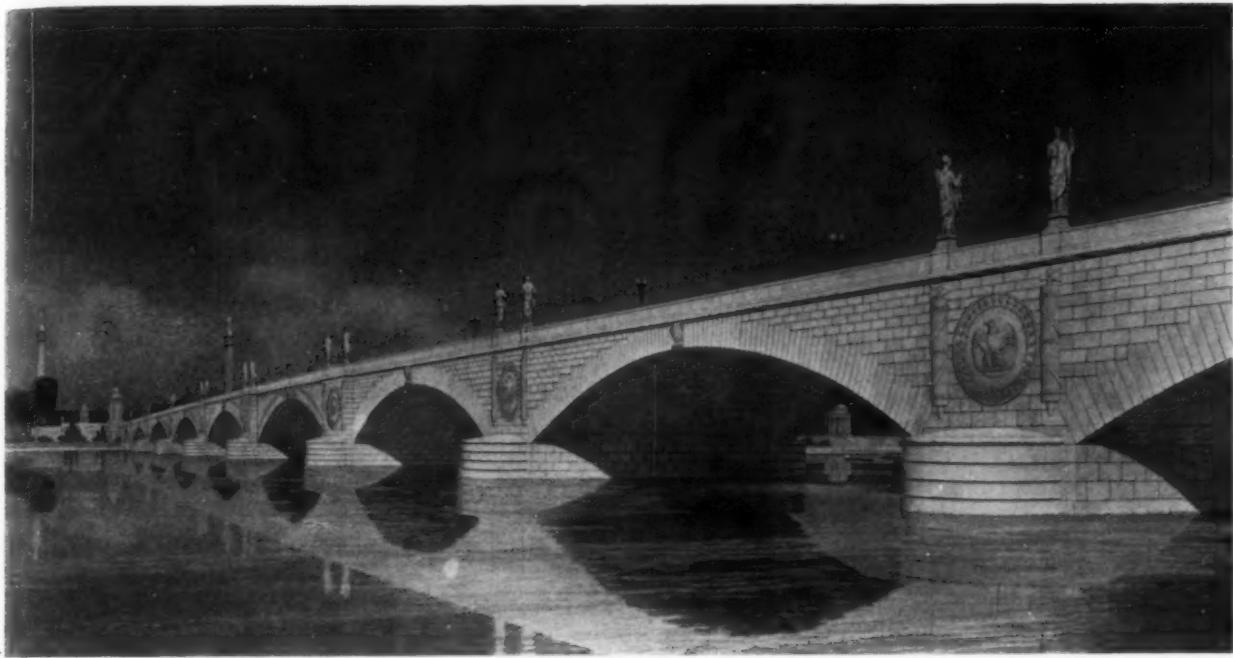
the beauty of these old bridges. Their durability and serviceability are alike attested by their present existence and use. Can we, then, escape the conclusion that the bridge is composite of those qualities that should find expression in every memorial? Does not this conclusion point the way toward the creation in our own time of bridges that are as truly beautiful as they are already durable and serviceable?

The need of bridges as public utilities is infinitely greater now than ever it was in the old world, and this need we have satisfied from the practical stand-

point with great skill; but in doing so we have generally omitted beauty as one of the essential requisites, with the result that our modern bridges only half fulfill their possibilities. May we not, in consequence, decide that in that which is useful there lies hidden the very germ or essence of beauty? Any museum showing the utensils of the Egyptians, Greeks and Romans reveals how much thought they gave to making these humble accompaniments of their daily lives a delight to behold without impairing in the least their usefulness. We, in the hurry



Lt. Richard Mortimer, Jr., Memorial Bridge, Hamilton, Mass.
Peabody, Wilson & Brown, Architects; Ralph W. Gray, Associated



Memorial Bridge Across the Potomac at Arlington, Va.
McKim, Mead & White, Architects

of our modern lives, are likely to find a place for beauty only when we are convinced that it will add to our incomes or to our importance. Its intrinsic excellence is little recognized. So with our bridges; the great proportion of those with which we are familiar are so exclusively utilitarian that there is no suggestion of beauty about them. They serve their purpose,—which is well,—but is it enough? Do they add dignity to the approaches of our great cities? Infrequently. Those that do so form a group of rare distinction. Do they add any line of

beauty to their surroundings? Do they offer to our citizens any inducement to add to the beauty of their own lives? Do they, in sooth, inspire the beholder with any loftier vision, any finer conception of life? Very rarely. And yet, I hold that they may; and that in their very nature lurk untried possibilities, all but infinite in their variety, and so full of suggestion and inspiration as to tempt the imagination of our ablest designers. In these times a little thought will insure to the bridge its place, not merely as a utility that in a purely mechanical and rather un-



Memorial Bridge to Charles Eliot, Blue Hill Reservation, Boston
Designed by Arthur A. Shurleff and A. W. Longfellow in consultation with Frederick Law Olmsted

lovely way serves its purpose, but as a thing of beauty and a source of pride, meeting the needs of a growing city and at the same time offering a most inspiring subject for the creative genius of the modern architect. It is an opportunity full of possibilities.

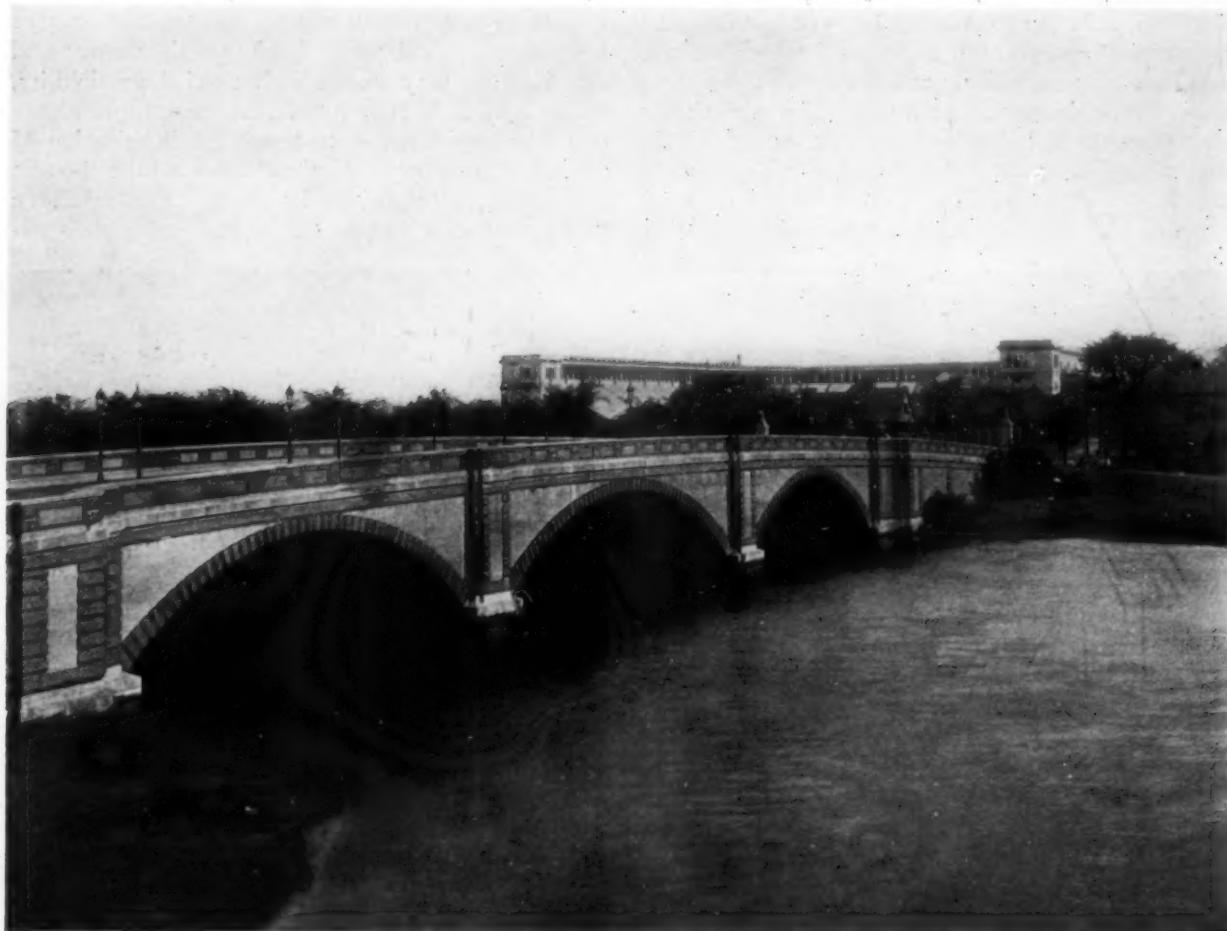
The world at large since the period of the Armistice has sought something that might best symbolize the spirit that animated those who freely gave their lives in the hope that their countries might live in peace. Every sort of war memorial has been erected, each and every one doubtless dedicated to the same spirit, but showing such variety of solutions and, in many instances, such hopeless ugliness of form, as to make the observer wish that he might have been left with his own mental picture of the spirit that was to be symbolized rather than the sad travesty on beauty that confronts him in a material so durable as to offer little hope of its early dissolution. May not, then, a bridge be in many instances an appropriate alternative? It would solve many a problem.

That there is a growing recognition of the suitability of the bridge as a memorial by engineers as well as by architects is apparent from some of the illustrations that we include here. How nobly the bridge at Arlington, Va., immortalizes the sacrifices made in our Civil War! What a graceful addition to the growing group of Harvard's buildings is the

John W. Weeks Memorial Bridge! With this the earlier Larz Anderson Memorial Bridge introduces a most harmonious and suitable note between the Colonial college buildings on the one hand and the modern stadium on the other. Springfield, Mass., may well be proud of its bridge across the Connecticut River, a memorial to the citizens of Hampden County who gave their lives or means that the city might prosper. The memorial to Charles Eliot is a particularly appealing and appropriate piece of work,—a lasting tribute to the foresight of a landscape architect, set in the surroundings which his vision had secured for the enjoyment of the public.

At Hamilton, Mass., is perhaps the most perfect solution that we have found. This bridge could hardly be better suited to the lines of the road and stream, or more charmingly suggestive of its memorial purpose. These smaller bridges are excellent examples of the intimate character that may so properly find expression in a memorial, and are convincing evidence that it is not necessary for a bridge to be large to be effective from any point of view.

In addition to the three characteristics that we have found essential in any memorial, we should note how perfectly the best of these bridges, whether old or new, harmonize with their surroundings, and how essential it is that in our admiration for the past we



Larz Anderson Memorial Bridge, Cambridge, Mass.

Haven & Hoyt, Architects

should avoid the repetition of features that are of only archaeological interest. We should bend our energies to insure the solution of our problem first as a bridge problem, and then to incorporate with it the memorial character, which is highly important.

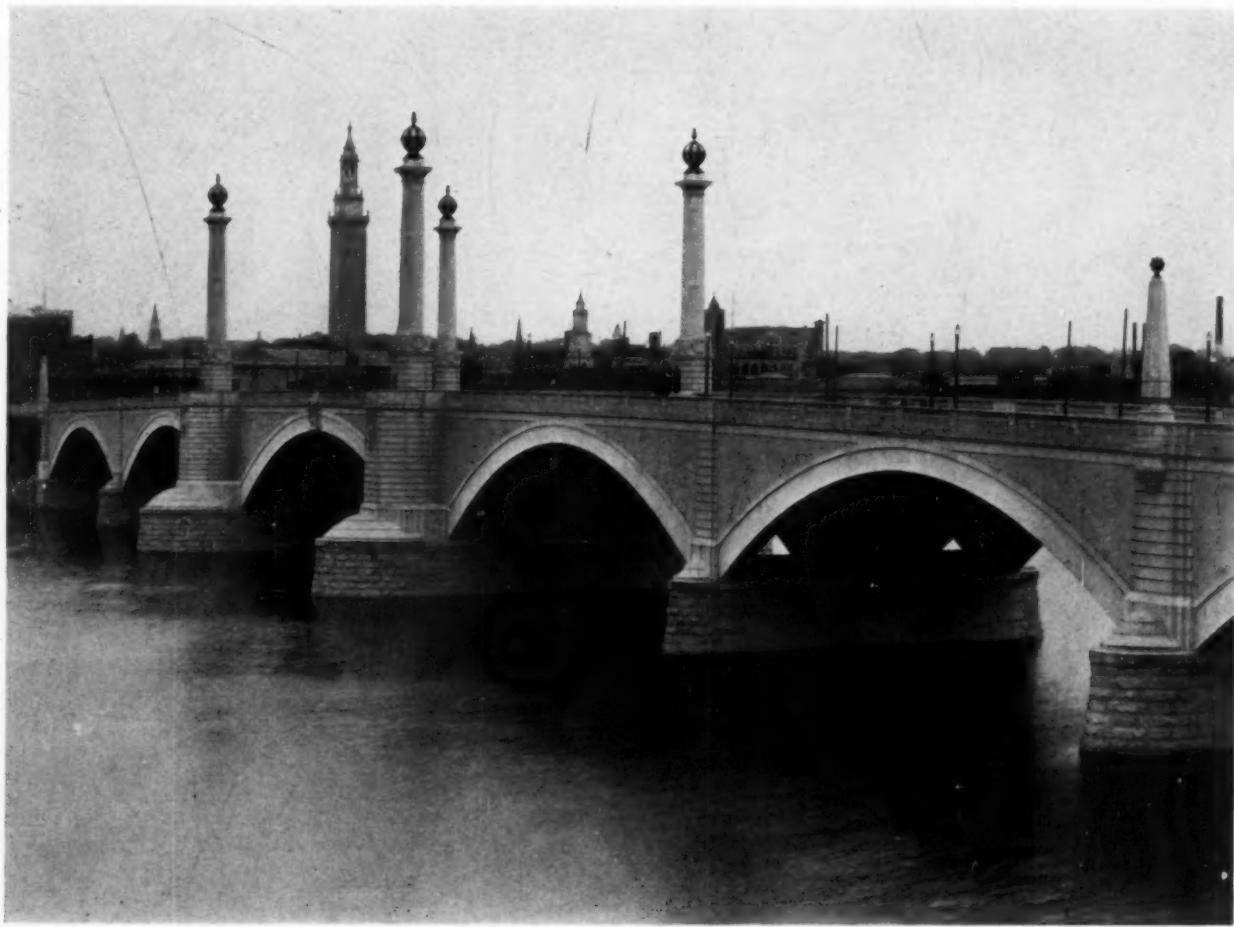
See how perfectly the bridge at Montmorillon, in France, lends itself to the conformation and character of the town beside it! It seems to become an integral part of it! What distinction and beauty are expressed in the old Roman bridge at Saint Chamas! Incidentally, how appropriate are its triumphal arches for use in a memorial! The leisurely repetition of the arches in the bridge at Saint Generoux is perfectly in keeping with the quiet country side and the half-hidden church with which it is composed.

Limitations of space preclude the showing of other examples, but many handsome modern bridges exist in this country, such as that at Harrisburg, Pa., and the railroad bridge over Hell Gate, in New York, which have been studied and achieved with a fine feeling for beauty. Together with these accomplishments there should be mentioned the excellent policy adopted by many of our park commissions of adding to the beauty of the landscape by securing carefully studied bridge designs across waterways. The work of the Metropolitan Park Commission of Boston affords a notable and most successful instance. Nor

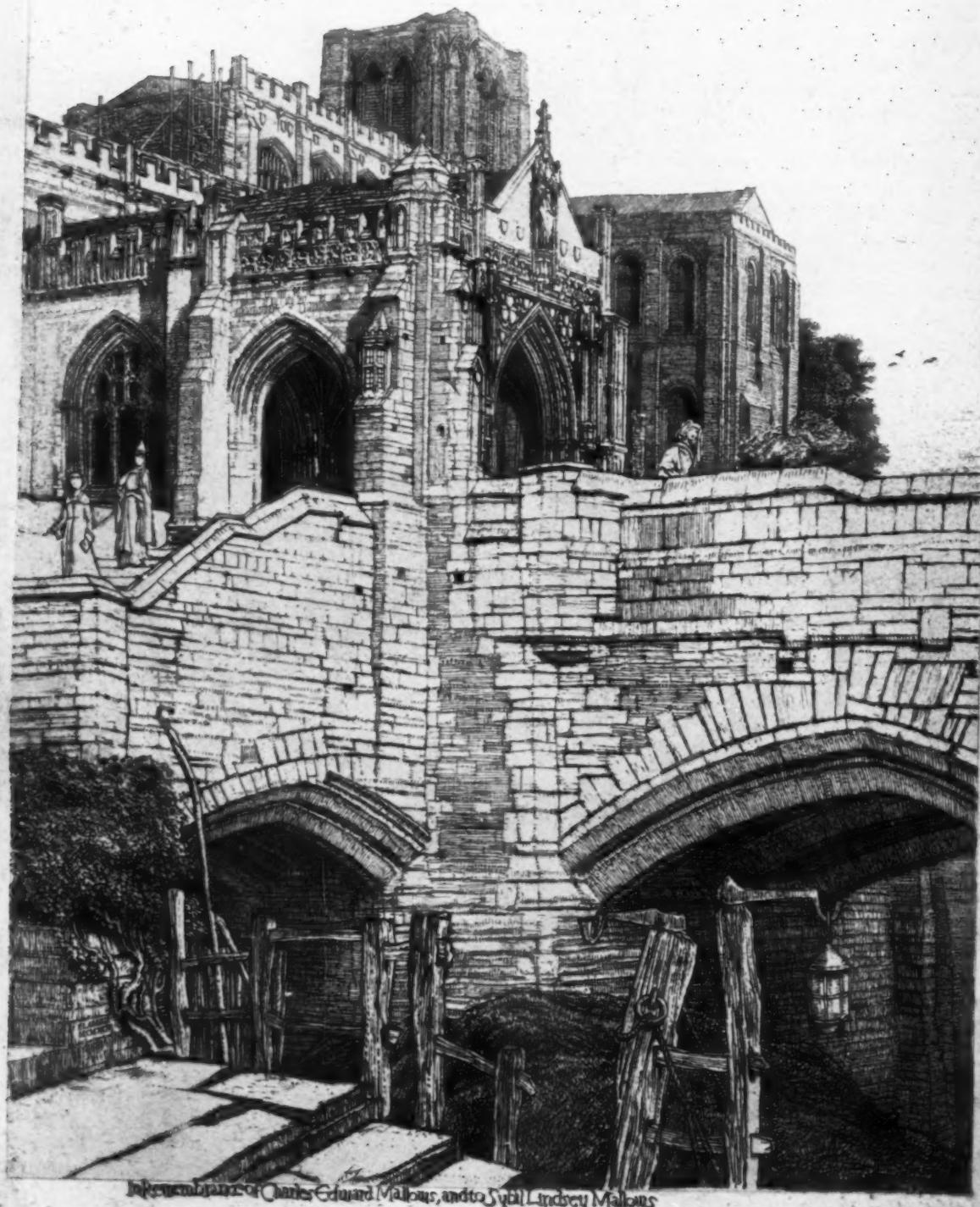
should we fail to mention the efforts of individuals who through their positions in the community and through never hesitating to voice their convictions have been a power for progress on the lines that we have suggested. Such a one was Colonel William A. Hayes, of Cambridge, Mass., whose belief in the suitability of a bridge for memorial purposes he never failed to express, urging its appropriateness particularly as a Harvard war memorial.

Those who would look further into the possibilities of bridges as memorials I refer to the suggestive etchings and water colors of Brangwyn, to the masterly water colors of Vignal, or to the sketches of Rosenberg and Chamberlain. Perhaps no one has recognized how manifold and fascinating are these possibilities from the point of view of composition better than the English etcher, F. L. Griggs. His architectural training, coupled with a fertile imagination, has taught him how to combine the simple bridge elements in great variety, with marvelous results.

In conclusion, let us realize that although practical necessities, aside from any consideration of beauty, are even more exacting in bridge building than in other architectural problems, it is often in the satisfying of these requirements that we find the very essence of our problem. In frankly meeting the practical we often discover the truly beautiful.



Memorial Bridge at Springfield, Mass.
Fay, Spofford & Thorndike, Designing and Supervising Engineers
Haven & Hoyt, Advising Architects



Courtesy of Kennedy & Co.

BRIDGE COMPOSITION
FROM AN ETCHING BY F. L. GRIGGS

Royal Artillery Monument, London

ADAMS, HOLDEN & PIERSON, Architects

C. S. JAGGER, Sculptor

THIS is one of the most interesting of the numerous splendid war memorials and monuments which have been erected in England during the past eight years. Both in mass and detail this memorial has great appeal. The interesting bas-reliefs showing artillery in action, as well as the model of the latest type of cannon which surmounts the monument, are executed in the same stone as the bulk of the memorial itself, which gives a consistency and solidity to the entire design, and creates a suitable background for the several bronze figures, executed in heroic size, which ornament each face of the monument. Although the scale of the sculptured bas-relief is only life size, no inconsistency is felt because these bas-reliefs are treated as a decorative frieze on the monument itself. The inscriptions themselves form one of the chief decorative features. The price of valor is suggested by the heroic bronze figure of the dead artillery man.



Two Views of the Royal Artillery Monument, London



White Memorial Fountain, Public Garden, Boston
Henry Bacon, Architect; Daniel C. French, Sculptor



Spencer Trask Memorial, Saratoga Springs, N. Y.
Henry Bacon, Architect; Daniel C. French, Sculptor

✓ The Relation of Sculpture to Architecture

By CHARLES O. CORNELIUS

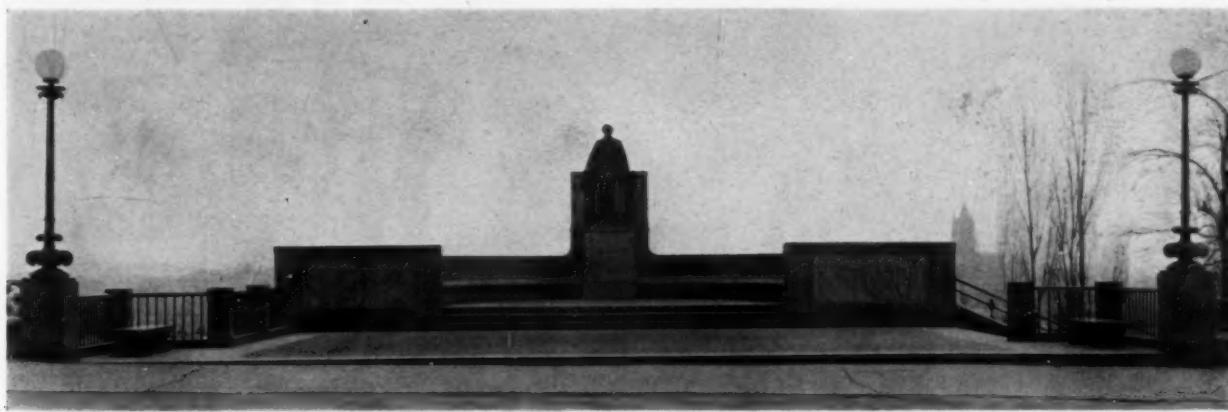
OF the many arts which contribute to the major art of architecture, none seems to present to its creators such difficult problems for solution as does that of architectural sculpture. At the same time there is no element in the composition of a complete architectural design which is of greater importance to the whole.

There must indeed be reasons why so many failures have been registered among the increasing number of examples of building in which architectural sculpture plays an essential part. The chief of these would seem to be a divergence between the points of view of the architect and the sculptor. The architect thinks primarily in terms of constructional composition,—part precisely related to part. The whole composition is built up in his mind not only as a pattern in light and shade or in voids and solids but also as a primary scheme upon a basis of weight and support. He thinks chiefly in terms of form and of light and shade. The sculptor, on the other hand, is a rather free agent, usually expressing himself in his work. The limitations of an architectural setting often hamper him and hinder to some extent the full swing of his genius. If, on the other hand, these limitations are not imposed, he is likely to go the full limit of the conception which is in his mind, interrupting perhaps the movement of the general design. On one hand we have the architect, to whom the sculpture is an enrichment for his building; on the other the sculptor for whom the building is a setting for his sculpture. It is a happy medium between these two which produces the finest results,—the sculptor working untrammelled, but conscious none the less of the limitations and requirements of his problem; the architect in his design properly placing the decorative sculpture so that it contributes to his structural design as a whole. The placing of the sculpture is chiefly the architect's province. Here too many mistakes are made, the decorative relief frequently serving to negative the structural composition.

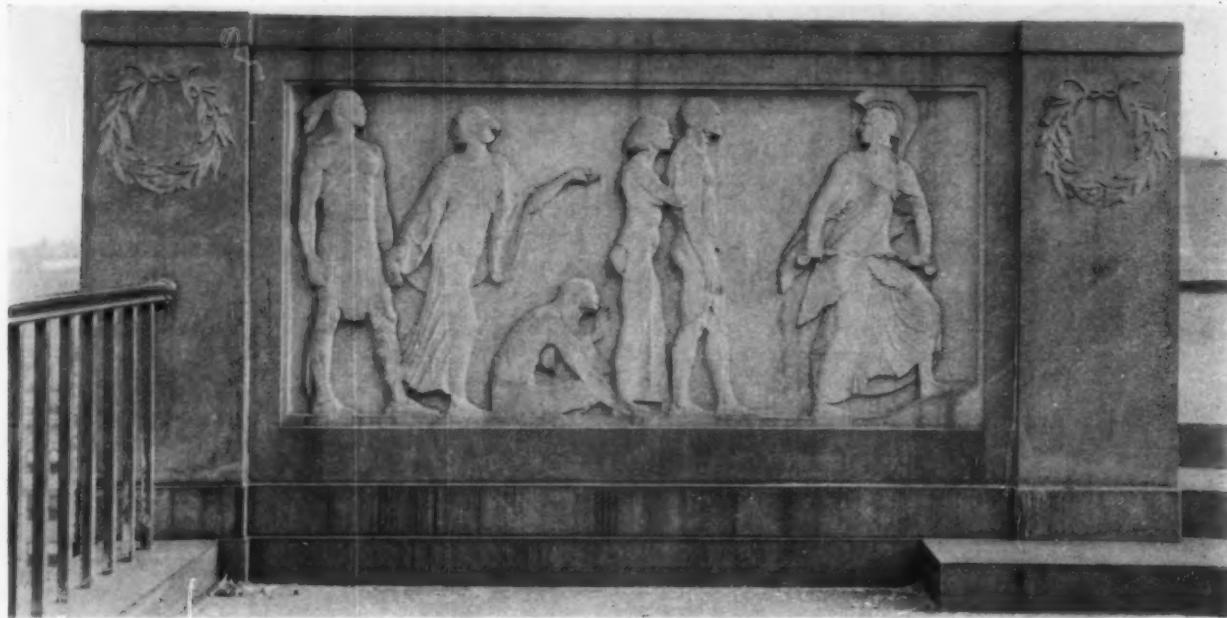
There are two general basic requirements to be met in the creation of good architectural sculpture. The first of these is the accurate relation between the sculpture itself and the architectural design of which it forms a part. The degree of its relief, its mass and form, its pattern in light and shade must all harmonize with certain lines and proportions, and with the scale and mass of the main composition. Secondly, the idea expressed by the sculpture, usually an abstract idea, should be clearly yet subtly suggested, and its connection with the uses of the building should be quite definite and apparent.

There is endless precedent for the placing as well as for the character of the sculptured work which is directly architectural. Perhaps a higher percentage of successes may be found in Greek work than in any other, although even here we must admit degrees of successfulness. The metope sculpture would seem to be almost always adequate. The cella frieze of the Parthenon and the drums of the columns at Ephesus are almost flawless and perfectly fresh creations. Pediment sculpture is not always equally successful. Tomb and theater reliefs are generally spirited and full of definite architectural character.

In much of the Greek work there is a surprising freedom of treatment within the limitations of the general design. The observance of basic lines or directions of the design seems only to have inspired a greater intensity in the sculptor. In Gothic usage the sculpture is more cramped by the architecture. Expressing a different approach and point of view, it is none the less equally successful. There probably remain to us today a greater number of examples of completely satisfying architectural sculpture in Gothic form than in any other. The hieratic tradition which carries into this Gothic sculpture is peculiarly suited to the structural feeling of the architecture. The formalized and restrained expression of emotion in the figures, the quaint grotesquery of the animals are all contributing influences.



Carl Schurz Memorial, New York
Henry Bacon, Architect, Karl Bitter, Sculptor



Panel on Carl Schurz Memorial, New York
Henry Bacon, Architect; Karl Bitter, Sculptor

The first requirement for the successful use of architectural sculpture, that of its relation to the building behind it, is controlled by the architect. He has here opportunities of emphasizing vertical or horizontal lines in his design, of accenting particular points or areas, and of gaining richer coloristic effects in light or shade. Often a too insistent vertical may be softened by the sculpture, or an exaggerated horizontal broken up at proper points. A subtle building up of mass is achieved by proper sculptural grouping. All of this sculptural treatment is closely associated with the carving. The sculpture and carv-

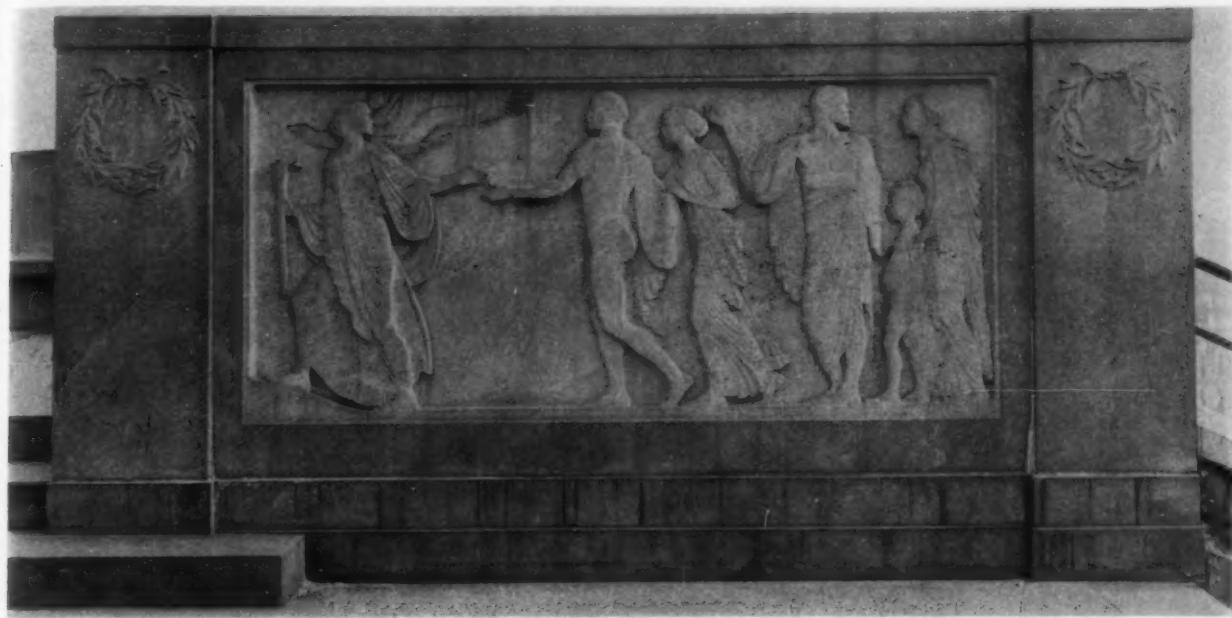
ing should be distinct, the latter,—usually of repeated motifs and seldom possessing any other than a decorative idea,—emphasizes the architectural lines.

If we can form any conclusions from the past to serve as a guide for the future, we may say that sculpture, when not used for itself alone, has been best placed in some position not primarily structural. The Greeks are seen using it most successfully in metopes,—spaces originally between beam ends which merely formed screens against the weather. The same is true of the great pediment sculpture of that nation. In tomb sculpture even less structural consid-



Courtesy of H. H. Martyn & Co., Ltd.

War Memorial, Salisbury



Panel on Carl Schurz Memorial, New York
Henry Bacon, Architect; Karl Bitter, Sculptor

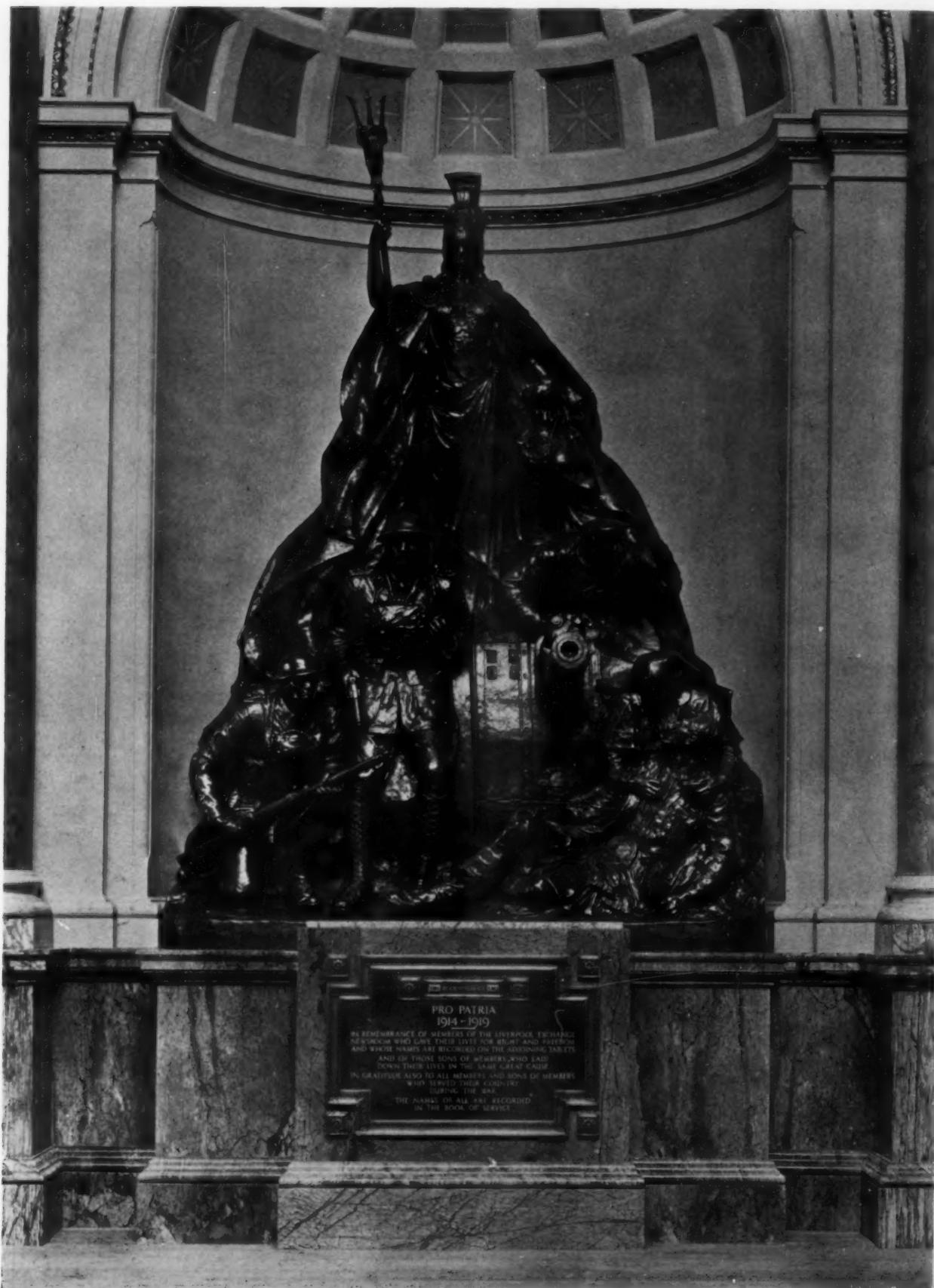
eration is required. In panels such as those on the Tower of the Winds, we again have pure decoration on a screen wall just as we have it in the Athenian frieze of the Parthenon. Architecturally less successful than these treatments is the use of the caryatid where peculiar beauty or effectiveness lies in other qualities. In the Gothic usage this deduction holds true to a large extent. The many exquisite statues about great portals or across facades are set with architectural enframement. Gargoyles project where variety in line or silhouette of mass is desired. Finials rising high above a buttress or roof line may carry

some soaring figure. This, then, is one conclusion to be drawn,—that sculpture in itself is not a strength-giving element. It is rather an adjunct which may be employed to increase or subtract from the strength-giving elements of the main architectural design.

Now as to methods in which this can be achieved. Standing off some distance from the sculpture, we may observe that the form of the main mass will serve to emphasize some subtle balance or proportion of the design behind it. Coming closer we will note that the predominating lines of the piece will carry out those of the architectural design, whether



New York State Memorial, Gettysburg Battlefield
Edward P. Casey, Architect



Courtesy of H. H. Martyn & Co., Ltd.

© Stewart Bale

WAR MEMORIAL TO MEMBERS, LIVERPOOL EXCHANGE NEWSROOM
W. P. HORSBURGH, ARCHITECT



VICTORY MEMORIAL, CAMBRIDGE, ENGLAND

R. TAIT MCKENZIE, ARCHITECT

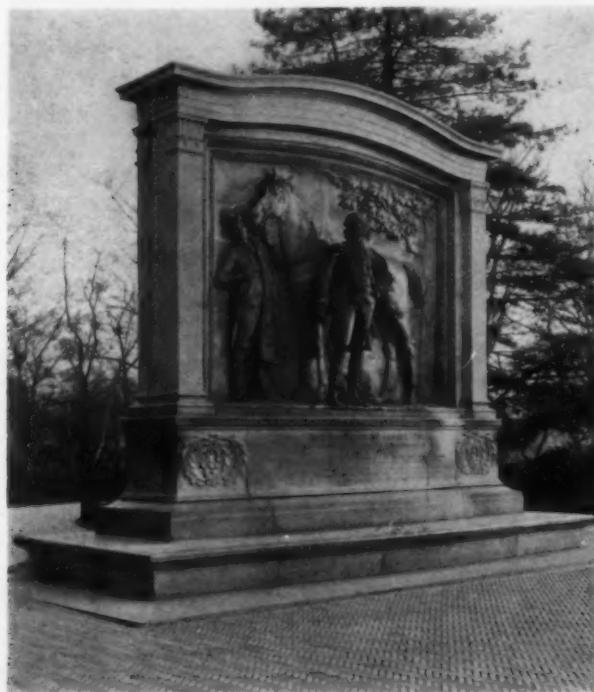
actually modeled in light and shade or more subtly suggested in the natural line of support of the group or figure. This will hold true whether the sculpture is free-standing, set against a facade or crowning its cornice, or whether it is in panel form breaking up into a certain tonality the surface of a screen wall. The actual treatment of the surfaces comes into this part of the discussion. One of the first requirements is a certain degree of formalization of pattern. Pure, free realism, while often splendidly gay used in connection with architecture, cannot well be made an essential element in so formalized an art. Formalization calls for simplification not only of form and line but also of surface. Broad surfaces of light throwing fine surfaces of shadow are requisite.

Too literal a following of such general ideas as are expressed here can lead only to insipidity. It is merely as a general thought that they are offered. When we think of some of the great architectural sculpture of the eighteenth century in France or that of the Baroque in Italy, we find what would seem to be almost a complete contradiction to our general conclusions. Yet upon closer examination we would find that the same general ideas would hold true, though perhaps interpreted on a special scale. Scale plays a very important part in architectural sculpture. A sculptural motif can often be brought into harmony with its adjacent architecture by a proper employment of scale in its modeling.

The abstract idea expressed by the sculpture calls less upon architectural than upon literary and iconographic knowledge. We may have representative scenes, such as the Egyptian, or semi-representative or allegorical, such as the Greek. Here figures are shown, usually in repose, but suggesting by their

juxtaposition some idea associated with their place in the history of religion or thought. Actual characters from history or mythology may suggest the abstract qualities which are associated with them in men's minds. Often, in such types of sculpture, inscriptions must identify the characters. Another usual method is the personification of abstract qualities such as Justice or Probity,—figures equipped with attributes which identify them to the knowing. Much of modern subject matter in architectural sculpture is based upon either classical mythology or upon Christian iconography, both frequently interpreted from Renaissance models.

More intelligible, even if less subtle, is the personification of abstract qualities or the representation of the arts and sciences whose attributes are a clue to their identity. Association of ideas, too, is utilized in applying motifs whose repeated use in the past has led to their association with certain buildings devoted to special uses. In the purely modern school it seems possible to dispense with any very precise ideas, relying more upon the pure aesthetic pleasure to carry the design. Spirited dancing figures or musicians at play seem adequate both from the point of view of design and meaning to express the uses of many buildings. Mourning figures or others in dignified procession might express an opposite extreme of feeling. This idea, while finding its place in modern usage, is nothing new, but a carrying on of the finest conceptions of ancient times. The famous balcony of musicians, for which Donatello is responsible, the Pisan pulpits, the tombs of the Dukes of Burgundy all express in sculptured form the sensations of joy or grief combined with an abstract quality of beauty which gives its own thrill.



Lafayette Memorial, Prospect Park, Brooklyn
Henry Bacon, Architect; Daniel C. French, Sculptor

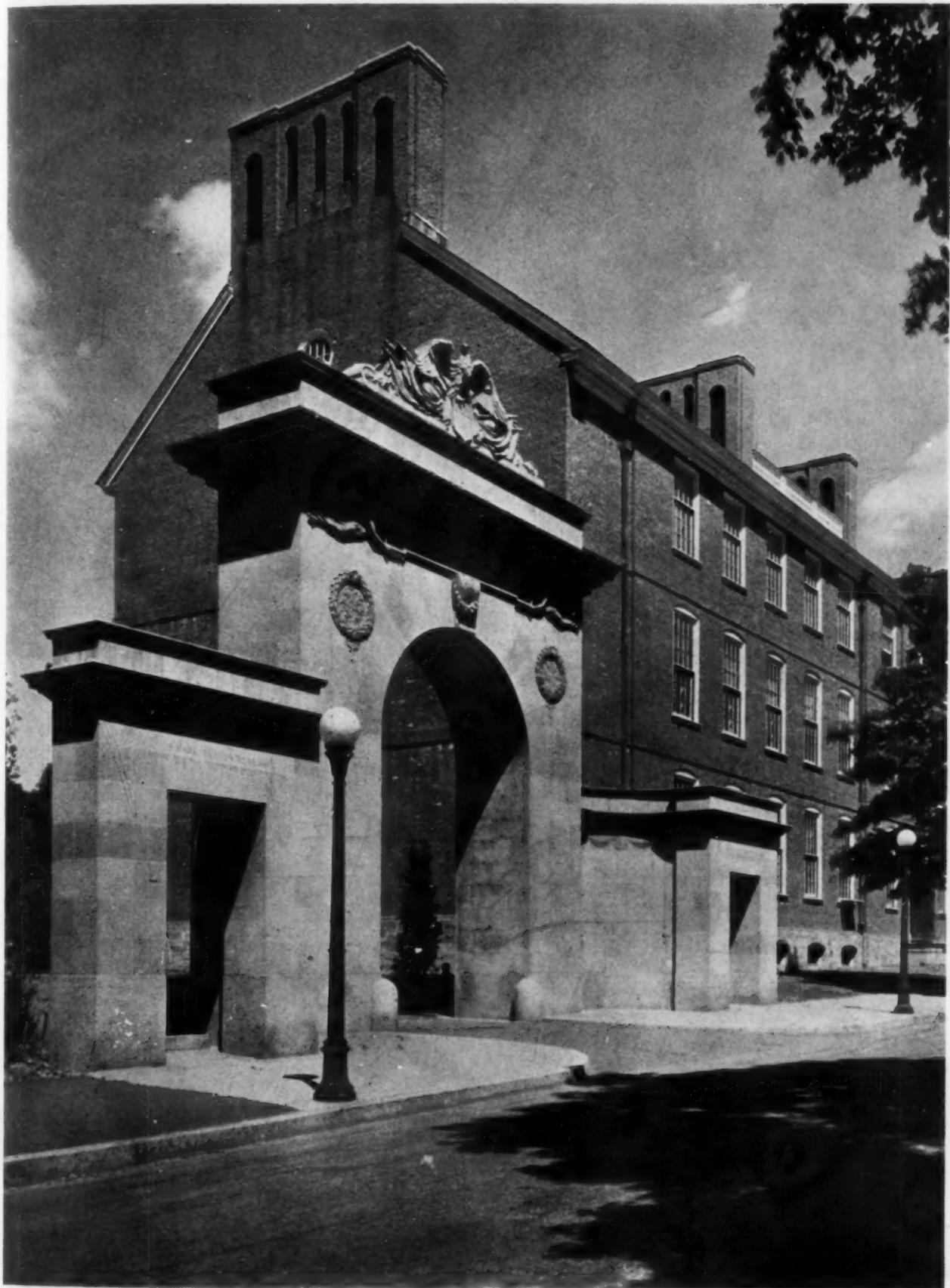


Baker Memorial, Parliament Buildings, Ottawa
R. Tait McKenzie, Architect

DECEMBER, 1926

THE ARCHITECTURAL FORUM

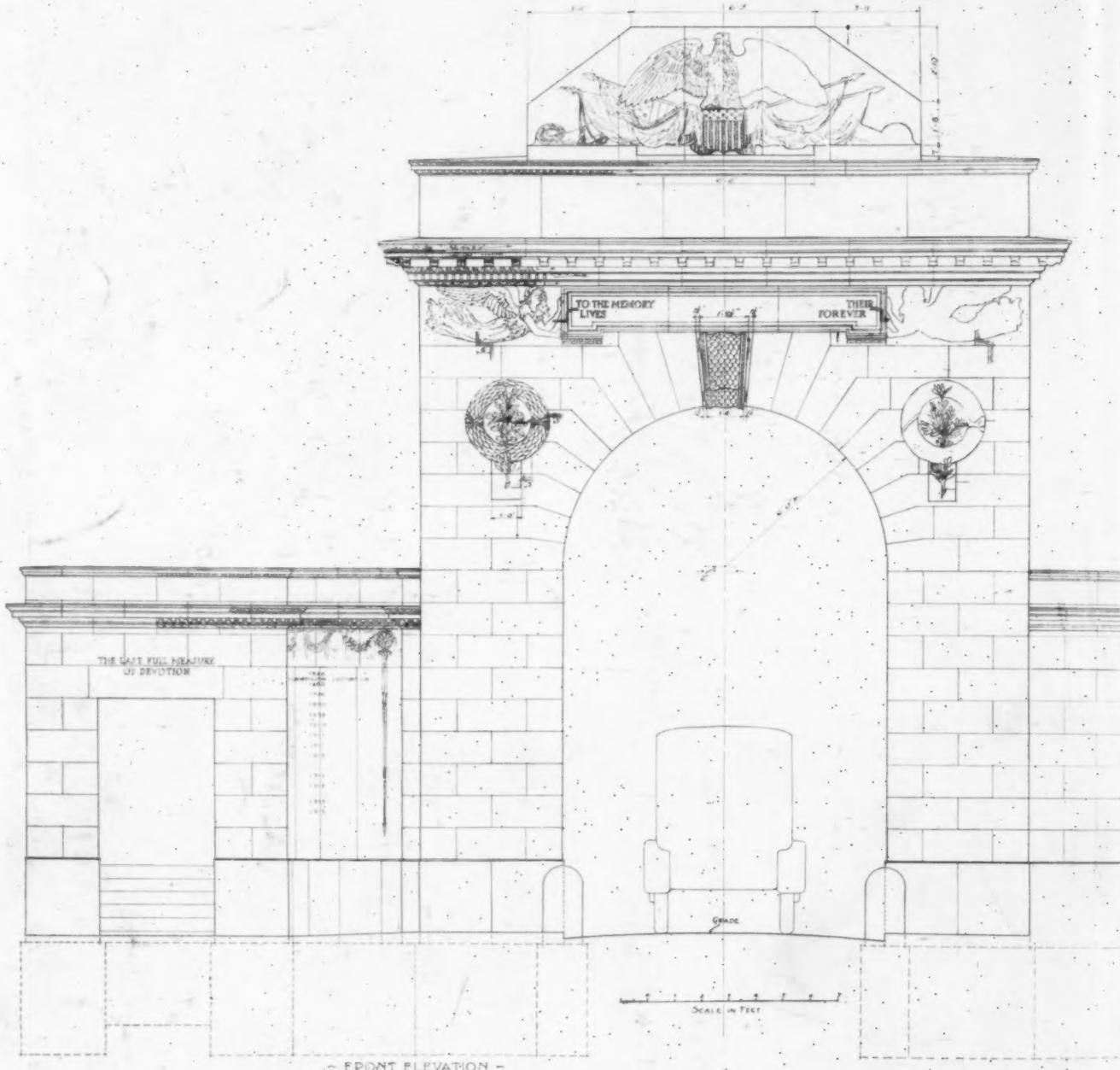
PLATE 89



Photo, Paul J. Weber

✓ **SOLDIERS' GATE, BROWN UNIVERSITY, PROVIDENCE**
COOLIDGE, SHEPLEY, BULFINCH & ABBOTT, ARCHITECTS

Measured Details on Back



DEC
1926

DETAILS, SOLDIERS' GATE, BROWN UNIVERSITY, PROVIDENCE
COOLIDGE, SHEPLEY, BULFINCH & ABBOTT, ARCHITECTS

No.
15

The ARCHITECTURAL FORUM DETAILS

DECEMBER, 1926

THE ARCHITECTURAL FORUM

PLATE 90



WAR MEMORIAL, BURY, LANCASHIRE
SIR REGINALD BLOMFIELD, ARCHITECT; HERMAN CAWTHRA, SCULPTOR



DECEMBER, 1926

THE ARCHITECTURAL FORUM

PLATE 91

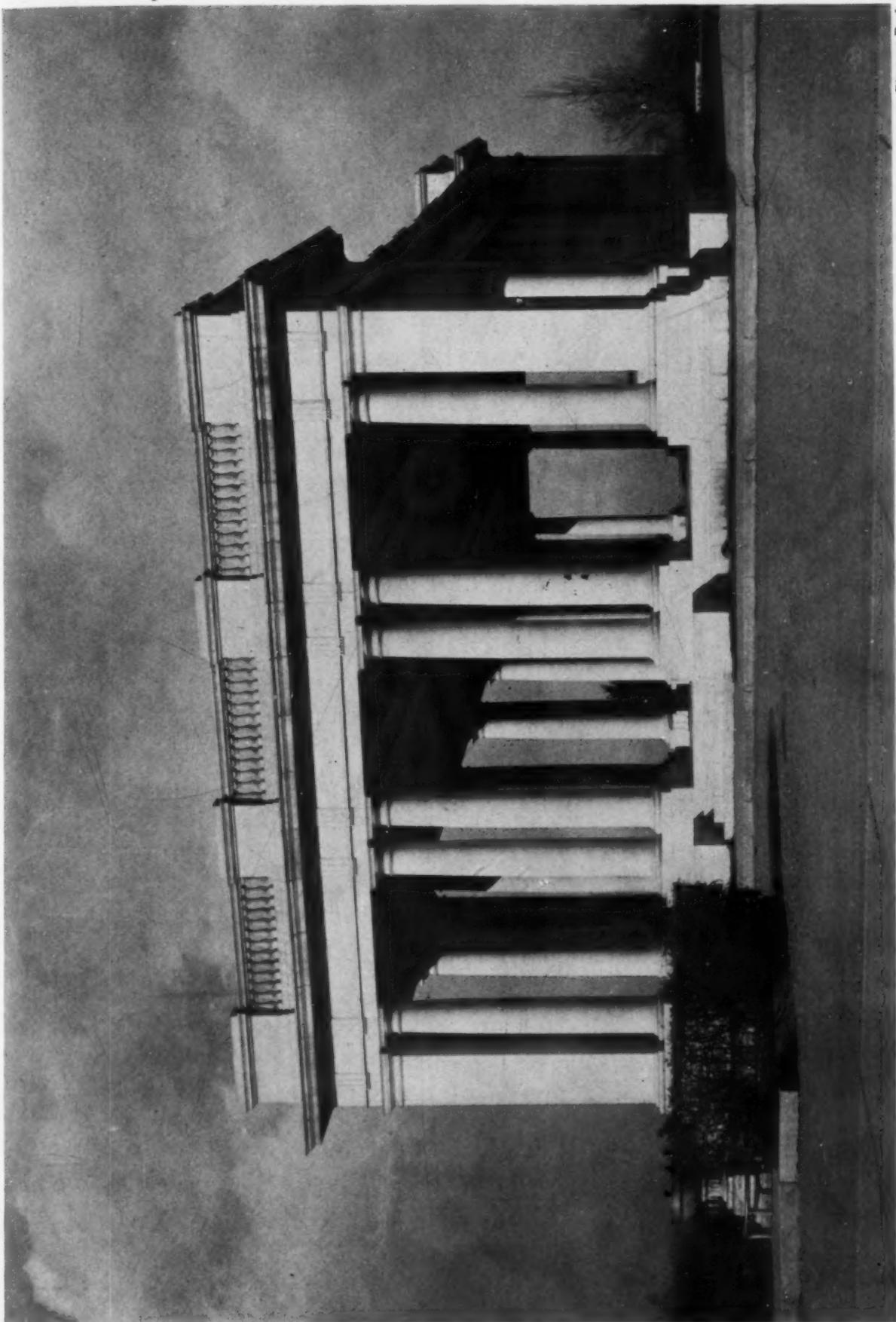
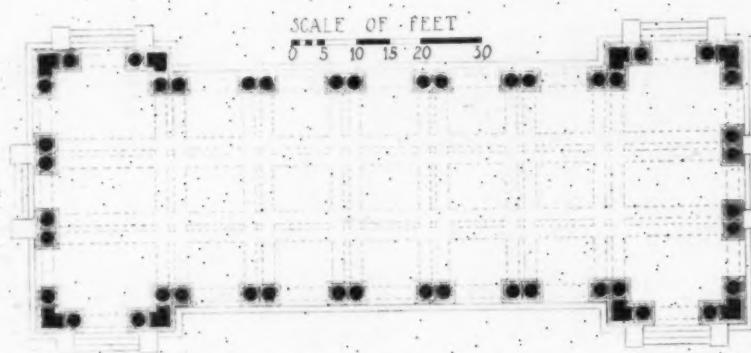


Photo. C. B. Cooper

CHEESMAN MEMORIAL PAVILION, DENVER
MARSH & NORTON, ARCHITECTS

Plans on Back



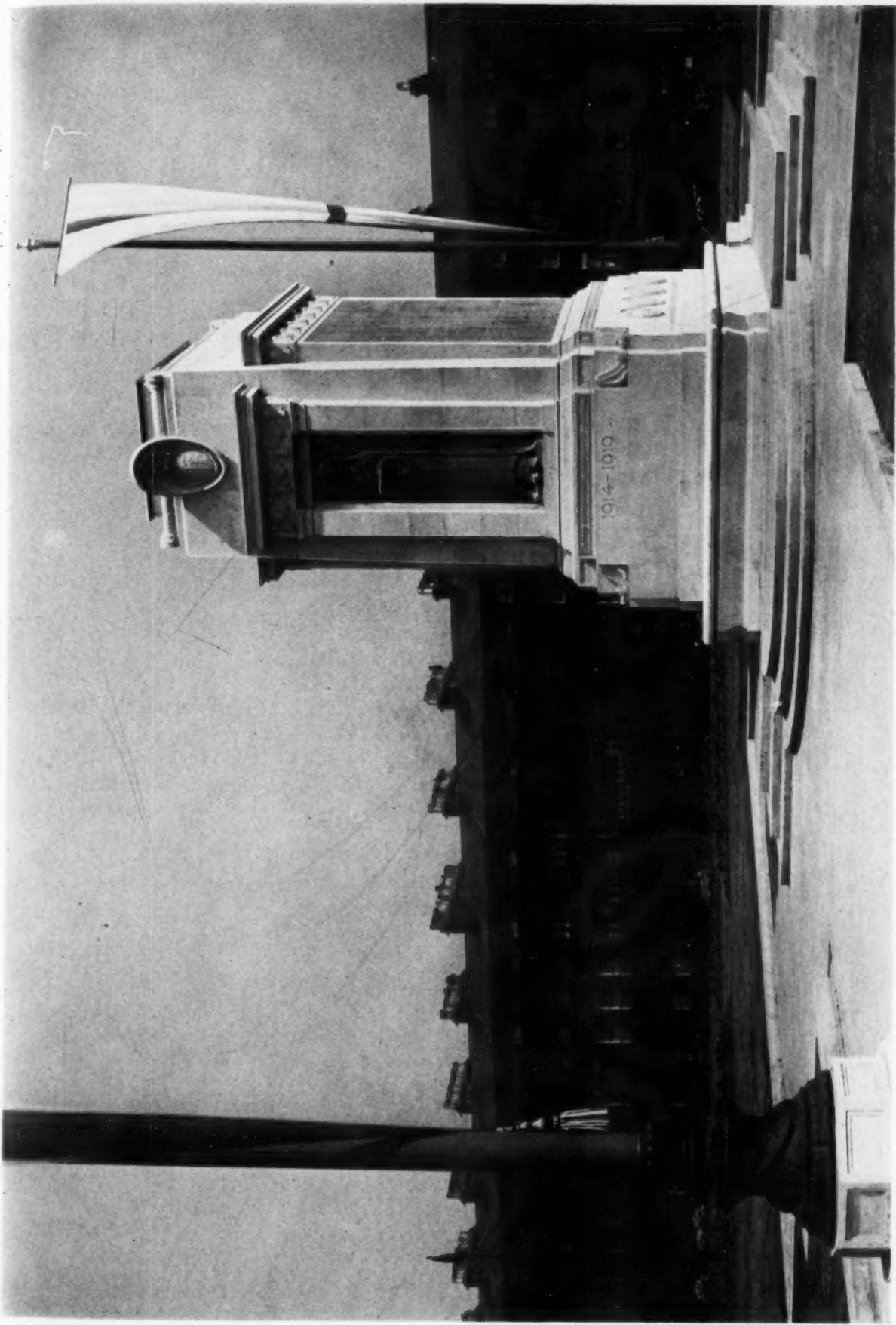
PLAN, CHEESMAN MEMORIAL PAVILION, DENVER

MAREAN & NORTON, ARCHITECTS

DECEMBER, 1926

THE ARCHITECTURAL FORUM

PLATE 92



WAR MEMORIAL, BIRKENHEAD, ENGLAND
LIONEL B. BUDDEN, ARCHITECT



DECEMBER, 1926

THE ARCHITECTURAL FORUM

PLATE 93

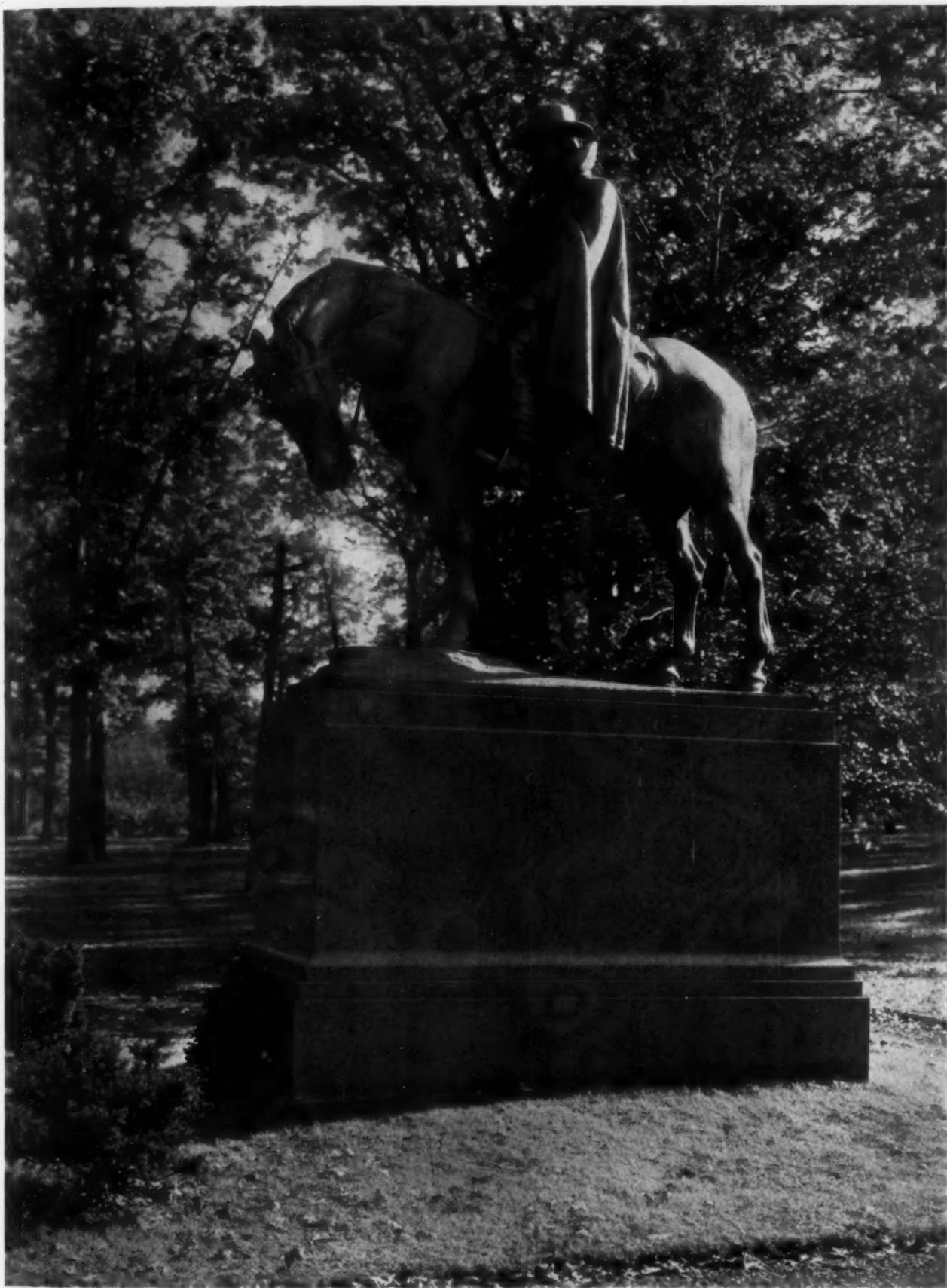


Photo. George H. Van Anda

STATUE OF FRANCIS ASBURY, DREW THEOLOGICAL SEMINARY, MADISON, N. J.
AUGUSTUS LUKEMAN, SCULPTOR



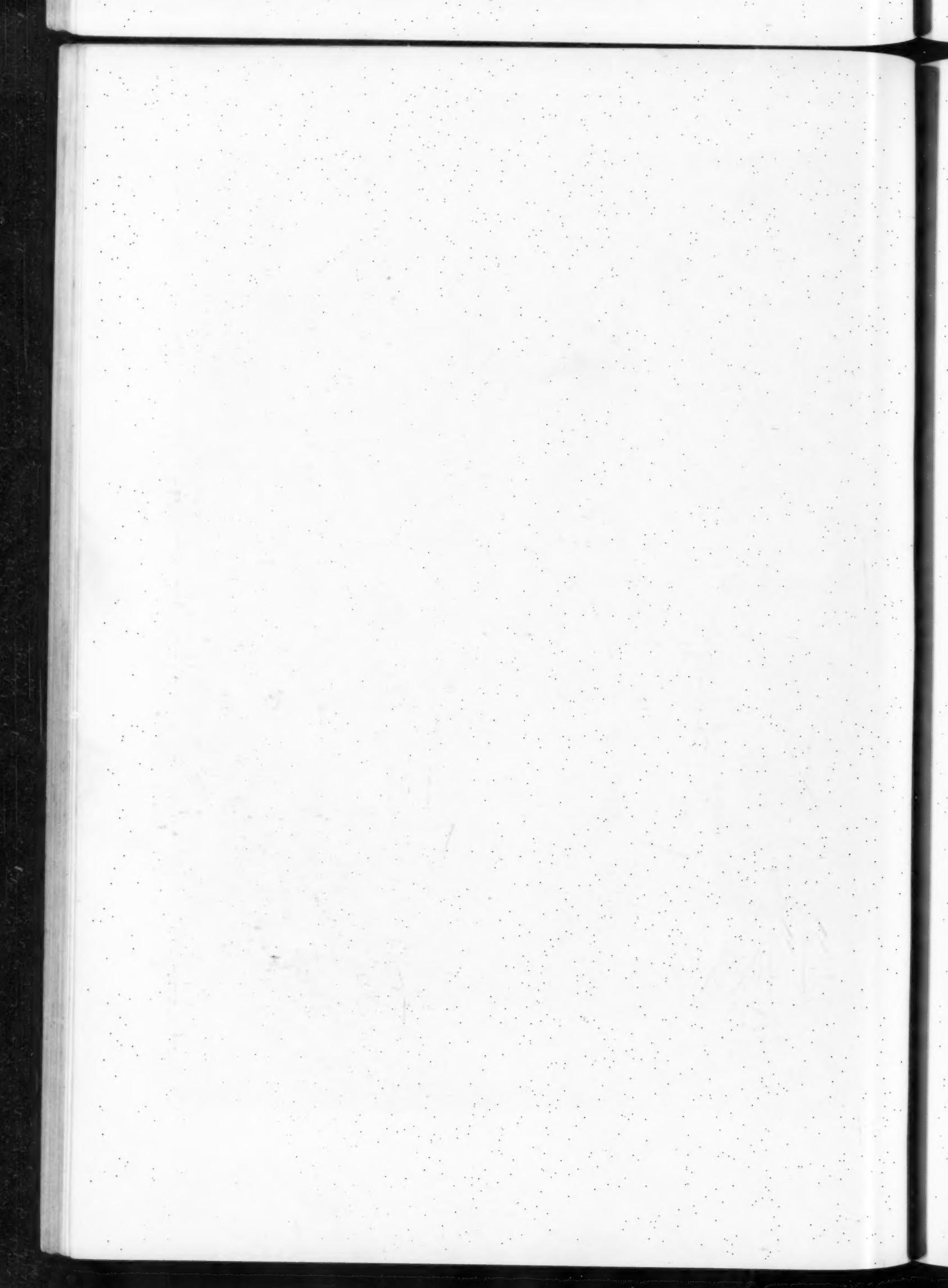
DECEMBER, 1926

THE ARCHITECTURAL FORUM

PLATE 94



WAR MEMORIAL, EXETER, N. H.
HENRY BACON, ARCHITECT; DANIEL C. FRENCH, SCULPTOR



DECEMBER, 1926

THE ARCHITECTURAL FORUM

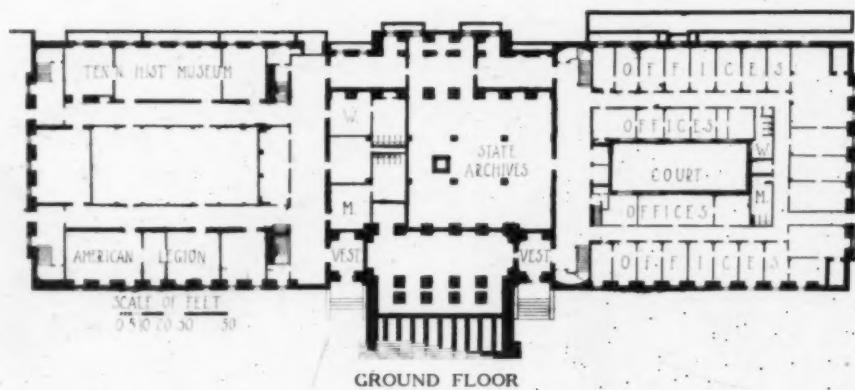
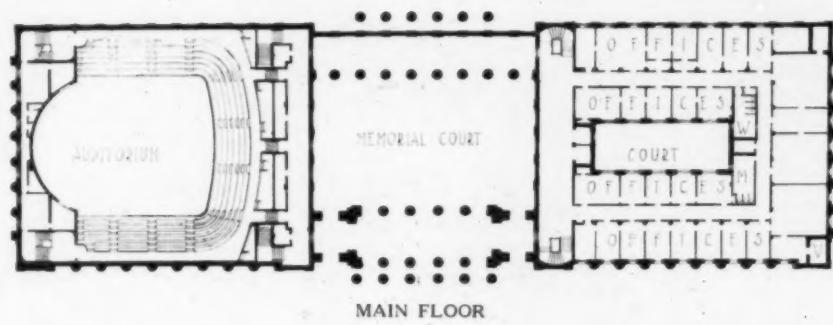
PLATE 95



Photo, Tebbs & Knell

TENNESSEE WAR MEMORIAL, NASHVILLE
EDWARD DOUGHERTY AND MCKIM, MEAD & WHITE, ASSOCIATED ARCHITECTS

Plans on Back



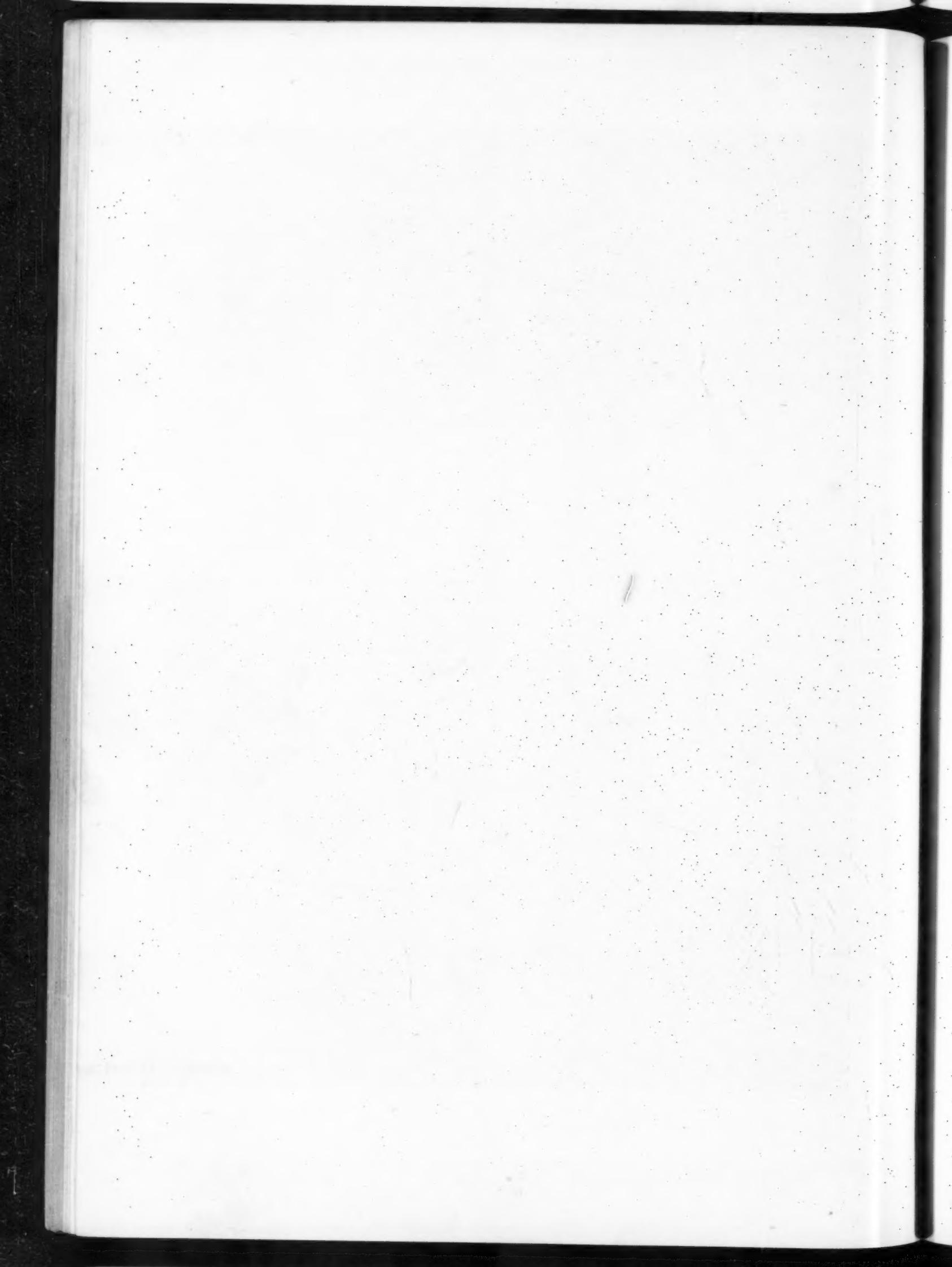
PLANS, TENNESSEE WAR MEMORIAL, NASHVILLE

EDWARD DOUGHERTY AND McKIM, MEAD & WHITE, ASSOCIATED ARCHITECTS



Photo, Wurts Bros.

WAR MEMORIAL TABLET, CHAPEL OF THE INTERCESSION, NEW YORK
BERTRAM GROSVENOR GOODHUE, ARCHITECT



The Winchester College War Cloister

By SIR HERBERT BAKER, Architect

ALL the war memorials at Winchester are of one type; they are memorials pure and simple, making but one direct appeal; they have been designed not to serve any practical purpose but to consecrate a part of our daily way to or from school or chapel, so that those who run may read.

The War Cloister, which commemorates the Great War, is built upon the lines of Wykehamical tradition and in close connection with the South African War Gate; together they form a *Via Sacra* for commoners, leading to work and worship. William of Wykeham made magnificent provision of gateways and courts for his 70 scholars; but he could not foresee that in the twentieth century five-sixths of the school would be living outside his original precincts. Fortunately commoners still come there day by day to worship in chapel or chantry, and the cloisters have become accessible to all. Great and simple architecture has a direct message for youth as well as for age, and it exercises an untold influence upon those who live under its spell. Therefore it seemed right, in commemorating the greatest event in our history, to endeavor to correct the architectural balance between college and commoners and between the east and the west side of "Meads." This was done by removing some unsightly buildings which hid the old flint wall, and by raising in their place a greater "Commoner Gate" in the form of a War Cloister, which harmonizes in material and design with the spirit of the founder's work. While these changes do much to enhance the beauty of Meads, which is the special garden of college men, they add even more to the heritage of commoners, who during centuries to come will pass through the War Cloister many times a day.

The new building confronts, but does not attempt to challenge, Wykeham's peerless cloister; they are both flint-faced, stone-dressed and bonded, roofed with oak, and are approximately of the same dimensions; but the resemblance ends there; they have nothing in common in general style or in detail of structure. Although a cloister in shape and suggestion, gaining in dignity and repose from the fact, our memorial differs, both in use and association, from the normal Gothic cloister. It will be used less as a place of rest or meditation than as a thoroughfare, and its associations are all of a special kind. Its architecture, sculpture, heraldry, and symbolism all



Garth, Winchester College Memorial

Sir Herbert Baker, Architect

tell how the fellowship of Wykehamists was merged, by service and sacrifice, in the unity of the British Empire and allied nations in the memorable years of War.

The exceptional character of the War Cloister is expressed by the original style of its architecture. It has round arches which rest on simple pillars set in pairs to bear the roof stresses, and on each of three sides there

are two buttresses to carry the thrusts of the arched roof trusses inside. The style is not so much eclectic as elemental; the forms are simple and austere and depend for their beauty upon proportions, texture and color. Four ashlar-faced domes occupy the corners of the Cloister and are dedicated to the greater dominions and to India, whose quick response and heroic service stirred the heart of Great Britain. It is a great tribute, though no tribute could be too great to commemorate their valor. Use of the flintwork, with which the inner as well as the outer walls of the Cloister are faced, is an original treatment, and forms a beautiful background for the stone arches and marble columns as seen from the open garth, and a rich setting for the interior gems of arms, symbols, inscriptions, bas-reliefs, and name tablets. A narrow bed of flowers, in which roses and lilies predominate, makes a fringe to the grass squares where they touch the arcades. The main entrance, that from Meads, is a circular arch 15 feet high; a pair of iron gates has been wrought for it, but they are seldom closed in term time. Above the arch is a gable containing a niche with a statue of the Virgin and Child, and her monogram is inlaid in flintwork. On either side is a tablet; one records the fact that the foundation stone was laid July 15, 1922, and the other the fact that the Cloister was opened May 31, 1924.

Most of the shaped stones which formed the face of the old wall opposite the racquet court and museum, or were found buried in its core, are used as bonding stones in the new flint walls, while a few interesting pieces of moulded and carved stone have been placed in the museum. There are some "temples" among them, and there are others in the long piece of Wykeham's wall, which was hidden behind the squash racquet court and has now been repaired and strengthened; all these were relighted for the first time after many years at "illumina" in December, 1923. There has been excellent use of old material.

The other chief entrance is in the southwest cor-



Detail, Winchester College Memorial

ner. Commoners enter by the South African War Gate from Kingsgate Street and look through a high round-arched doorway directly down the south gallery of the Cloister. They tread exactly the same path which commoners have long been treading. There is a little forecourt, ten yards in length, with the entrance to the armory on the right and on the left a stone tablet set in the old wall. It bears famous words from Pilgrim's Progress: "Then said he, 'My sword I give to him that shall succeed me in my pilgrimage, and my courage and skill to him that can get it. My marks and scars I carry with me, to be a witness for me that I have fought His battles Who will now be my Rewarder.' So he passed over, and all the trumpets sounded for him on the other side." The four lion heads placed right and left in this open

court were discovered embedded in the stone wall. Above the doorway, by His Majesty's gracious permission, are placed the royal arms. The large door and the small blocked doorway in the northwest corner have been provided to connect the Cloister with school buildings which may some day be built on the north side. The remaining door, on the south side, the "Door of Victory," leads to the racquet court, the gymnasium, and the college sick house.

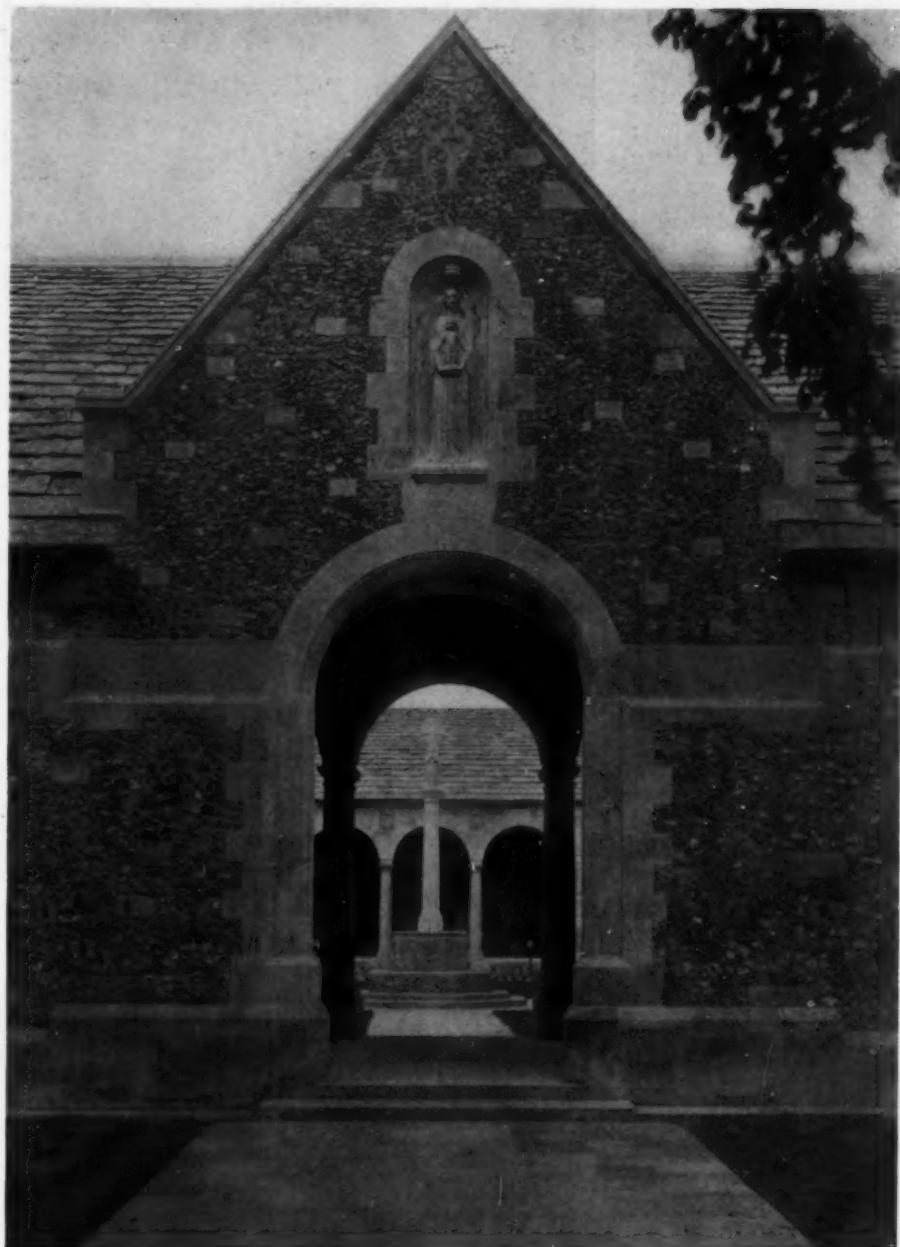
Inside the Cloister, the center and circumference both strike the note of Christian sacrifice. Where the four paved ways of the garth meet between the grass squares there is an octagonal monolith, inscribed "*Esto fidelis usque ad mortem et dabo tibi coronam vitæ.*" From this base a stone shaft rises, crowned with a cross inscribed in Greek, "Christ is risen," while two sentinel crusaders, facing east and west, guard the symbol of sacrifice. The long inscription of solid stone letters set in a background of knapped flints forms the circumference and runs right round the Cloister in a continuous band 9 feet from the ground. It

is not an inscription in the usual sense of the word, but a prose poem, which fell naturally into Biblical language. The Lombardic script has been designed, with much labor and skill, to suit the special qualities of flintwork. The words are these: "Thanks be to God for the service of these five hundred Wykehamists, who were found faithful unto death amid the manifold chances of the Great War. In the day of battle they forgot not God, Who created them to do His will, nor their country, the stronghold of freedom, nor their school, the mother of godliness and discipline. Strong in this threefold faith they went forth from home and kindred to the battle fields of the world, and treading the path of duty and sacrifice laid down their lives for mankind. Thou, therefore, for whom they died, seek not thine

own, but serve as they served, and in peace or in war bear thyself ever as Christ's soldier, gentle in all things, valiant in action, steadfast in adversity." Such are the lines.

Round the garth, in the spaces between the arches, are arms and badges, symbols of all the national thoughts and home thoughts which haunted and inspired our soldiers in the war. On the east side, the arms of the four nations—England, Scotland, Ireland and Wales—occupy pride of place, and the four national emblems, rose, thistle, shamrock and leek, are set right and left of them. As we come westward, there are (in pairs) facing one another, badges of the royal navy and the mercantile marine; of the infantry and the artillery; of the flying corps and the Red Cross; of rewards of valor (typified by the V. C.) and high command (typified by the crossed baton and sword of a lieutenant-general); of foreign policy (represented by the arms of Lord Grey of Fallodon, Foreign Secretary) and government of the empire (by the arms of Lord Chelmsford, Viceroy of India). Toward the west, in the center are the arms of William of Wykeham and of the see of Winchester; right and left, the arms of the city of Winchester and a symbolic device for Hampshire; the arms of the universities of Oxford and Cambridge; and finally, as representing the school at this epoch, the arms of Lord Selborne, warden (1920-1925), and of Dr. Rendall, head master (1911-1924). On the inside walls are built tablets of gray Derbyshire marble inscribed with the names of the 500 Wykehamists who fell in the war,—16 tablets in all, grouped in pairs, between each pair a stone recording the great battles of the war. Above stand the arms of the allied nations, and the leopard of England is linked with them in cords of friendship.

Among the stones which bond the flint facing to



Entrance, Winchester College Memorial

the core of the wall are larger and more regular stones carved in low relief—like the little stone shields on either side of the porch of the college sick house—representing the arms of the dominions and the provinces of India and symbols of the dependencies, groups of dependencies, islands, and mandatory states of the empire, and also some battlefield areas outside the territories of the allies. These symbols, like the arms recently granted to the provinces of India and here displayed for the first time, attempt to express historical, geographical, mythological, and other dominant facts and influences of those portions of the empire. The four corners of the Cloister are dedicated to dominions, colonies, and India. They are vaulted with stone domes, their keystones being carved with the imperial emblems. In the pavement are

large circular slabs, which have been quarried in the dominions or India and generously given for the memorial by their governments. Inlaid in these paving slabs are symbols in brass to be polished into gold by the feet of the future centuries' generations of Wykehamists.

Badges of 120 regiments, in which the 500 Wykehamists served, are blazoned on the corbels and tie beams of the roof; the remaining four badges, which belong to the regiments most closely associated with Winchester, are carried by angels on the oak struts of the roof over the arches. On other struts shaped as angels and on the bosses, where the curved roof trusses meet, are other carved symbols. There are two sculptured reliefs, of Victory and Peace, opposite each other at the center on the north and south walls. For a general system of low-toned illumination, electric lights are set high up in the walls behind pierced stones, in the manner of the traditional "temples." Provision has been made for hanging lanterns, if required, from the roof beams. In the outside north wall, close to the northeast angle, stands a craftsman's stone, recording the names of the architect,—Sir Herbert Baker, A.R.A.; and the sculptor and carver,—Alfred Turner, A.R.A., who, under the generous instruc-



Wall Tablets, Winchester College Memorial

tions of the builders, Messrs. Holloway Brothers, treated the interests of his employers and the school as one. Below the names are carved the words: "*Non sibi sed Deo et mortuis.*"

There are others who must not be forgotten; it was a joy to all at Winchester to see the foundation, a raft of steel-enforced concrete, laid deep and strong; to

watch the walls rising day by day, hour by hour; to mark the swift and continuous growth of this building. But most pleasant of all was it to observe the energy and pride which the men (practically all of them of Winchester) displayed in their work; their hammers, hods and chisels were never idle; we were back in the good old days. The Cloister was indeed a work of willing coöperation, in which artists and craftsmen felt the spell of Wykeham's art and tradition, were inspired by the greatness of their task, and were encouraged by the generous trust and ready assistance of the committee. While essentially modern in form and spirit, the War Cloister fits well into its position among the other collegiate buildings which during centuries have been growing up in this historic old city. It typifies the spirit of Winchester, essentially modern, yet carefully regarding tradition.



One Side of the Cloister



Corner of the Cloister

The Charlesfort Monument, Parris Island, S. C.

By ALBERT SIMONS and SAMUEL LAPHAM, JR.

CHARLESFORT was established in 1562 on what is now Parris Island, S. C., by Jean Ribaut, acting under a commission from Admiral Coligny. The purpose of this settlement was not only to extend the domains of the King of France, Charles IX, but also to form a colony that would be a refuge for Huguenots. On the seaward end of Parris Island was built Charlesfort, and here Ribaut erected a small octagonal stone column to mark the land as belonging to Charles IX and to France. The little settlement existed until 1563, when mutiny arose among its members. The fort was abandoned, and having built a small ship, the garrison attempted to return to France. Shortly after its departure the site was visited by the Spanish, the fort burned, and the column carried away.

For many years it was supposed that Charlesfort, while on Port Royal Sound, was not on Parris Island. Led by his interest in historical matters, Col. John Millis of the U. S. Corps of Engineers, assisted by Gen. Harry Lee of the Marine Corps, began a search for the site in 1917. The World War intervened, but after it was over the search was resumed by General Lee and Major G. H. Osterhaut, under authority from the Secretary of War and with aid and suggestions from prominent citizens and authorities on South Carolina history. Full reports of the search can be found recorded in "Transactions of the Huguenot Society of South Carolina," so we quote herewith only part of General Lee's report on the final result:—" . . . when men were available, Major Osterhaut was placed in charge of the work with directions to clear the site and then to run deep and narrow trenches at right angles across the sup-

posed location of the fort and within the area traced by the old moat. After digging, the trenches disclosed the butt ends of cedar posts, generally their tops and sidings, some 2 or 3 feet below the surface of the ground. The trees within this area had markings on them showing where the old parapet had been, and eventually complete traces of the old stockade were disclosed. . . ." With the exception of the old stone tower at Newport, this fort on Parris Island is certainly the oldest structure erected by the white race within the present limits of the United States of which any discernible trace remains today.

Upon being told of what was found, the Huguenot Society of South Carolina conceived the idea of building an appropriate monument on the site; its officers appealed to the state's congressmen and senators for aid in securing an appropriation for a monument, and this was later approved and passed by congress. A committee composed of the Secretary of the Navy, the Commandant of the 6th Naval District, and the President and Secretary of the Huguenot Society was appointed to handle the matter, and they selected Messrs. Simons & Lapham, of Charleston, as the architects for the proposed memorial.

The *parti pris* had already been made, and it was decided that the monument should consist of an octagonal shaft, bearing the royal arms of France, reminiscent of the marker set up by Jean Ribaut. The general character of this marker was known, since Ribaut had set up two, the other being on the River of May, in Florida, and Jacques Le Moine, an artist, accompanying Laudonniere on another colonizing voyage to Florida in 1564, had sketched it. This engraving is contained in the "Brevis Narratio."



Landward Side, Charlesfort Monument, Parris Island, S. C.

Simons & Lapham, Architects

For the Charlesfort monument's design, however, the details, sketchily indicated in LeMoyne's engraving, had to be exact, and it was therefore necessary to verify the French arms of the time of Charles IX and to identify the order that surrounded the shield. This presented a line of research which led to correspondence with students and authorities of military insignia and heraldry, especially Capt. G. M. Chandler, U. S. A. and Col. R. L. Collins, U. S. A., who took a personal interest in the search. Thanks to the rather extended efforts of Col. Collins, the details were definitely verified by descriptions in the *"Promptuaire Armorial et General"* by Boisseau, published at Paris in 1657, and in the *"Manuel du Blason"* by Parois, published at Paris in 1854. Through the enthusiasm of Col. Collins, Lt. Col. Falls became interested and supplied a definite check on the heraldic correctness by obtaining and presenting the architects with rubbings from a coin minted in the reign of Charles IX, which showed the French shield and crown, and with a rubbing of the medallion of the collar of the Order of St. Michel, probably dating from the early eighteenth century, both taken from specimens in the collection of the American Numismatic Society. From these and from an illustration in the files of the architects, showing the royal arms above the fireplace in the ballroom at Fontainebleau, the details were determined beyond peradventure. The arms consist of a shield bearing three *fleurs de lys*, surmounted by the royal crown and surrounded by the grand collar and pendant of the Order of St. Michel. This order, it may be said in passing, was founded by Louis XI in 1469 to commemorate the heroic resistance of the fortress-monastery of Mont St. Michel to the English invasions, and consisted in the beginning of 36 chevaliers.

In setting up the monument it was possible, through the coöperation of the personnel of the Public Works Office of the Marine Reservation, to carry out one of those minor refinements which have added to the interest of the work. A calculation was made of the reckoning of Parris Island from Dieppe, and the angle bearing the royal arms was set by the compass on that reckoning facing toward the coast of France and the homes of those brave colonists. The reverse or landward side was designed by the architects to present a contrast to the pomp of royalty. The open Bible is surmounted by the sacred monogram "I. H. S." and supported by a scroll bearing the words "Religion, Freedom and Trust." These might be interpreted as symbols of freedom of conscience, tempered by that divine humanity that leads to the goal of enlightenment and truth. The double wreaths at the top recall the sacrificial garlands placed on Ribaut's marker by the Indians when they worshiped it as a totem, as shown in the engraving by Le Moyne. In the approval of the drawings by the National Commission of Fine Arts, the Commission suggested the use of native plant forms as more significant than the usual highly conventionalized forms of decoration. The wreaths are therefore composed of pine, magnolia and sycamore leaves and branches, all native to the place.

The problem of the inscriptions for the monument involved two legends, being brief in order that the letters be in scale with the heroic size of the shaft. The inscription below the Bible was prepared by John Bennett, the author and historian, and that below the French arms by Miss K. B. Mazyck, Librarian of the Huguenot Society. The orthography used for the proper names was verified by W. C. Miller, the President of the Huguenot Society.



Marker Erected by Ribaut in 1562 at Charlesfort
From an Engraving by Le Moyne, 1591



SEAWARD SIDE, CHARLESFORT MONUMENT, PARRIS ISLAND, S. C.
SIMONS & LAPHAM, ARCHITECTS



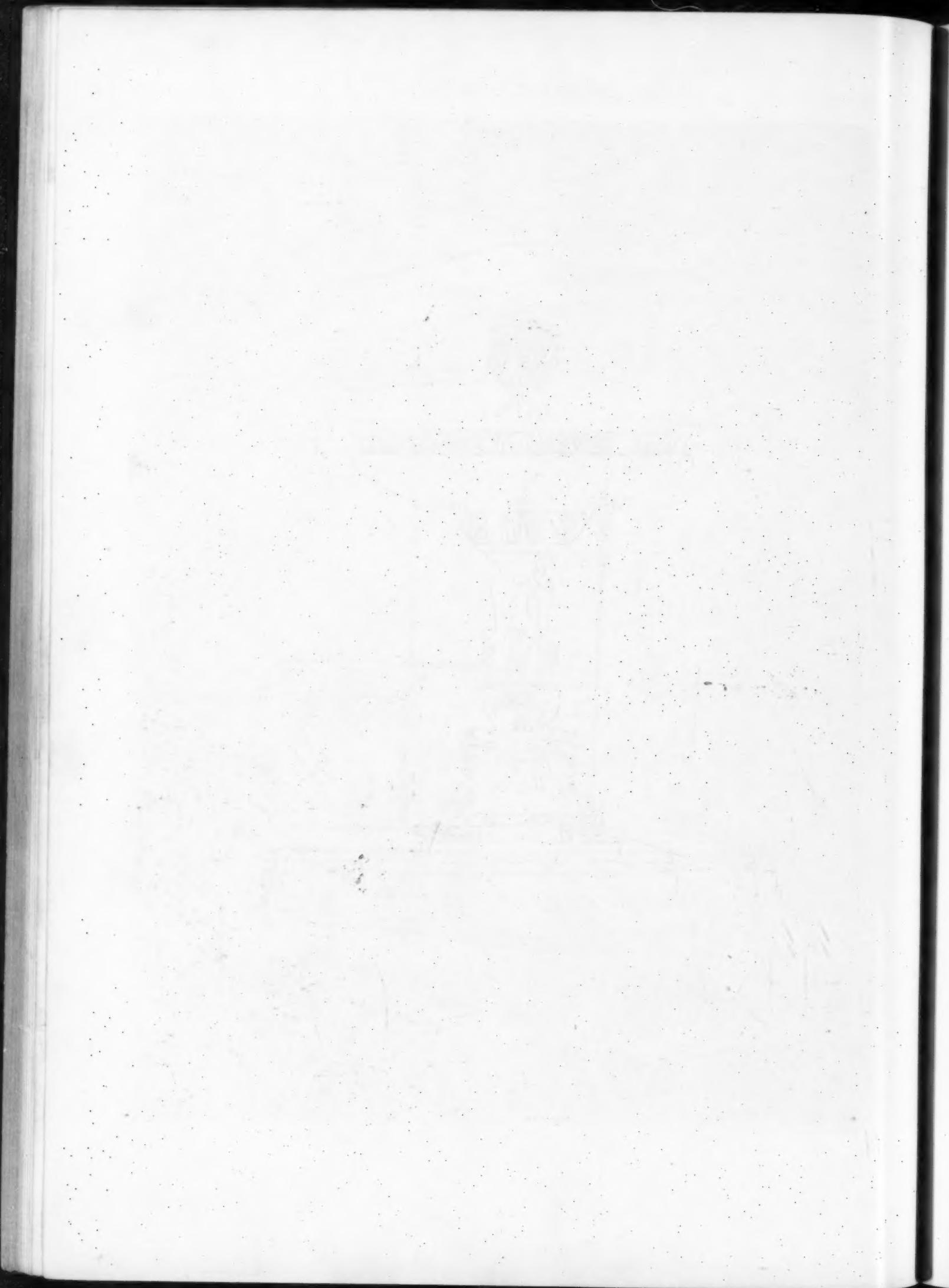
MONUMENT TO THE A. E. F., NEAR ST. NAZAIRE
GERTRUDE V. WHITNEY, SCULPTRESS
ELECTUS D. LITCHFIELD, ARCHITECT



Photo. John Wallace Gillies

COMMODORE THOMAS MACDONOUGH MEMORIAL, VERGENNES, VT.

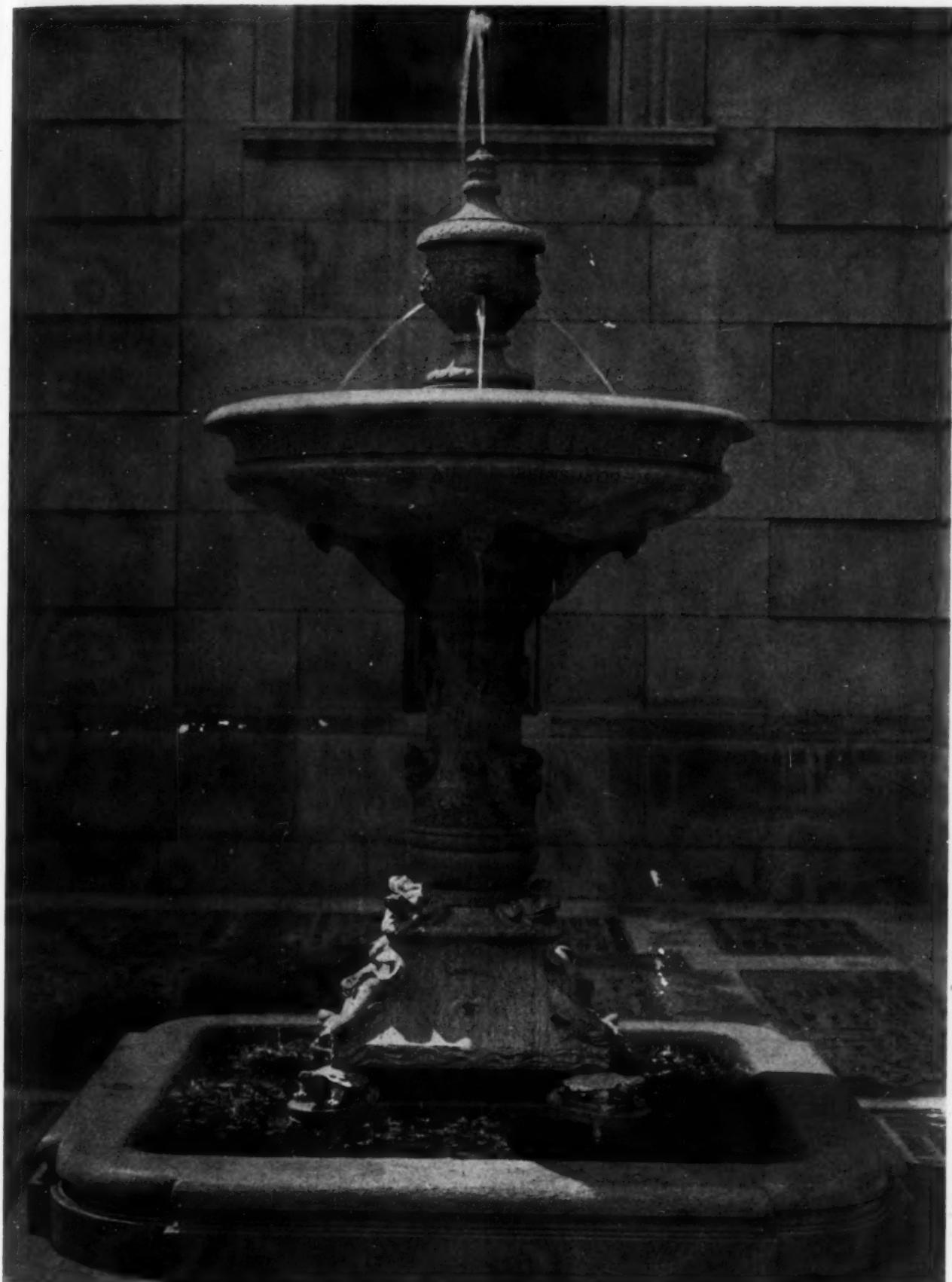
JOHN RUSSELL POPE, ARCHITECT



DECEMBER, 1926

THE ARCHITECTURAL FORUM

PLATE 98



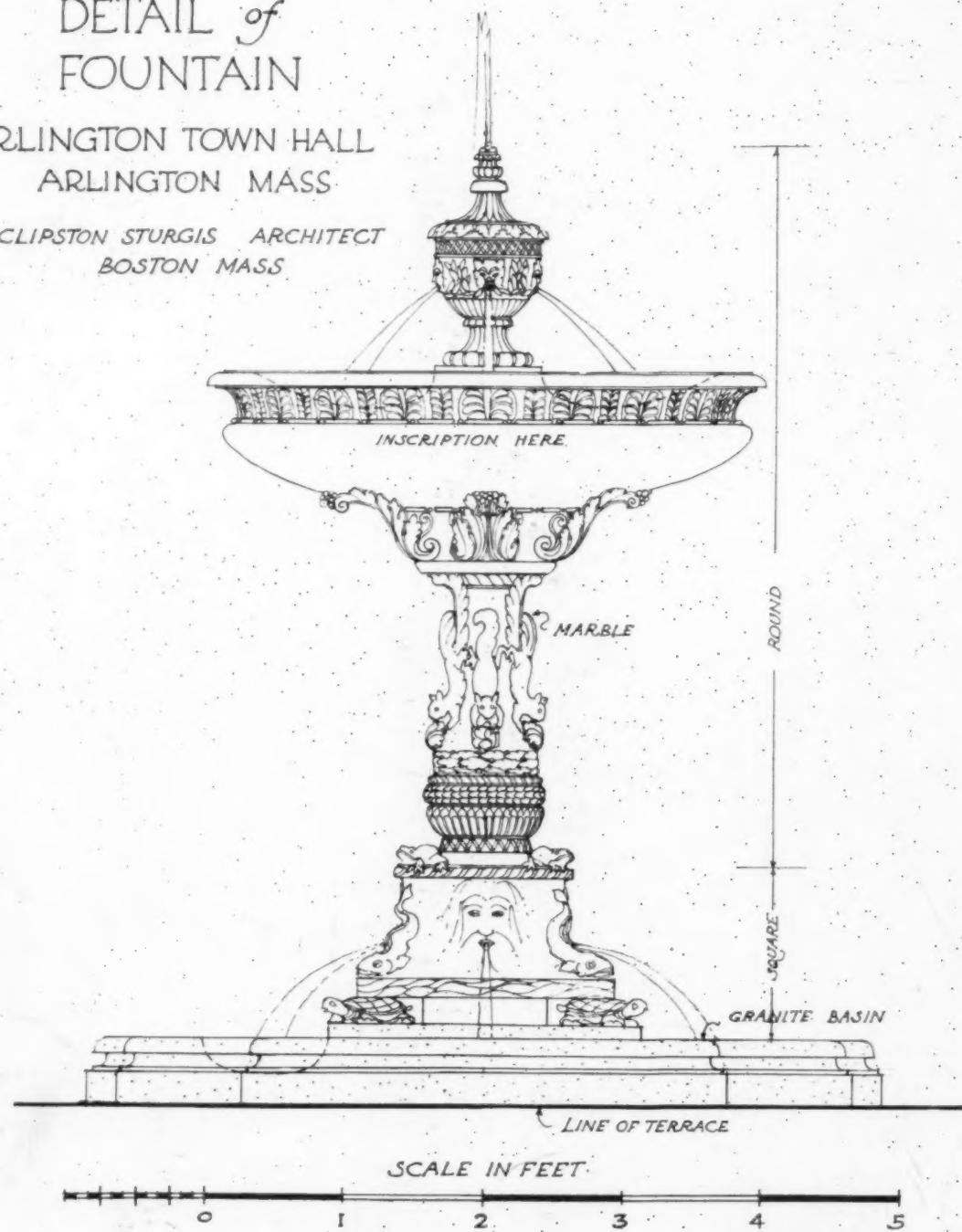
MEMORIAL FOUNTAIN, ARLINGTON, MASS.
R. CLIPSTON STURGIS, ARCHITECT

Measured Details on Back

DETAIL of FOUNTAIN

ARLINGTON TOWN HALL
ARLINGTON MASS

R. CLIPSTON STURGIS ARCHITECT
BOSTON MASS



DEC
1926

NO
16

The ARCHITECTURAL FORUM DETAILS

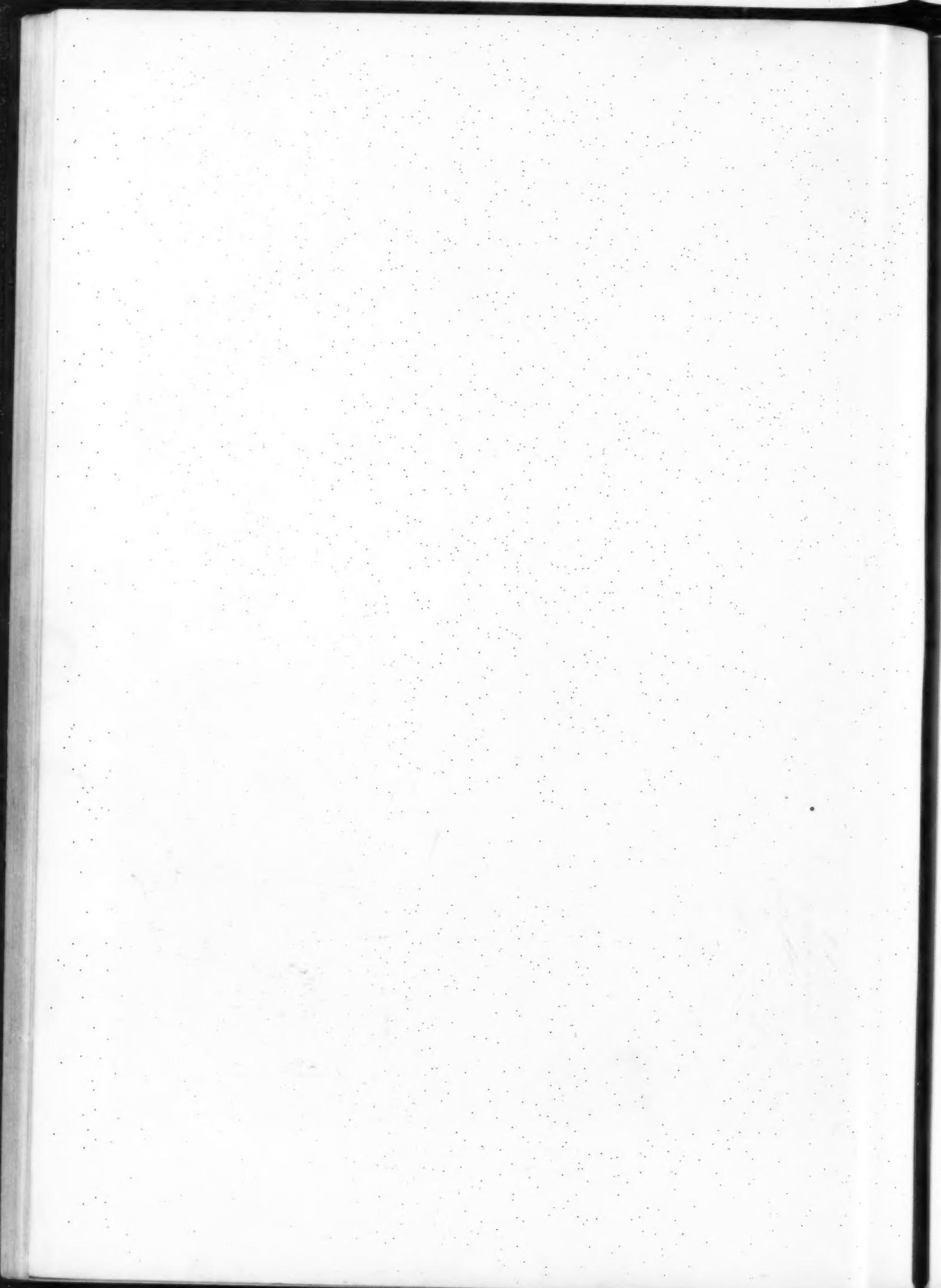
DECEMBER, 1926

THE ARCHITECTURAL FORUM

PLATE 99



ROYAL AIR FORCE MEMORIAL, LONDON
SIR REGINALD BLOMFIELD, ARCHITECT; REID DIRK, SCULPTOR



DECEMBER, 1926

THE ARCHITECTURAL FORUM

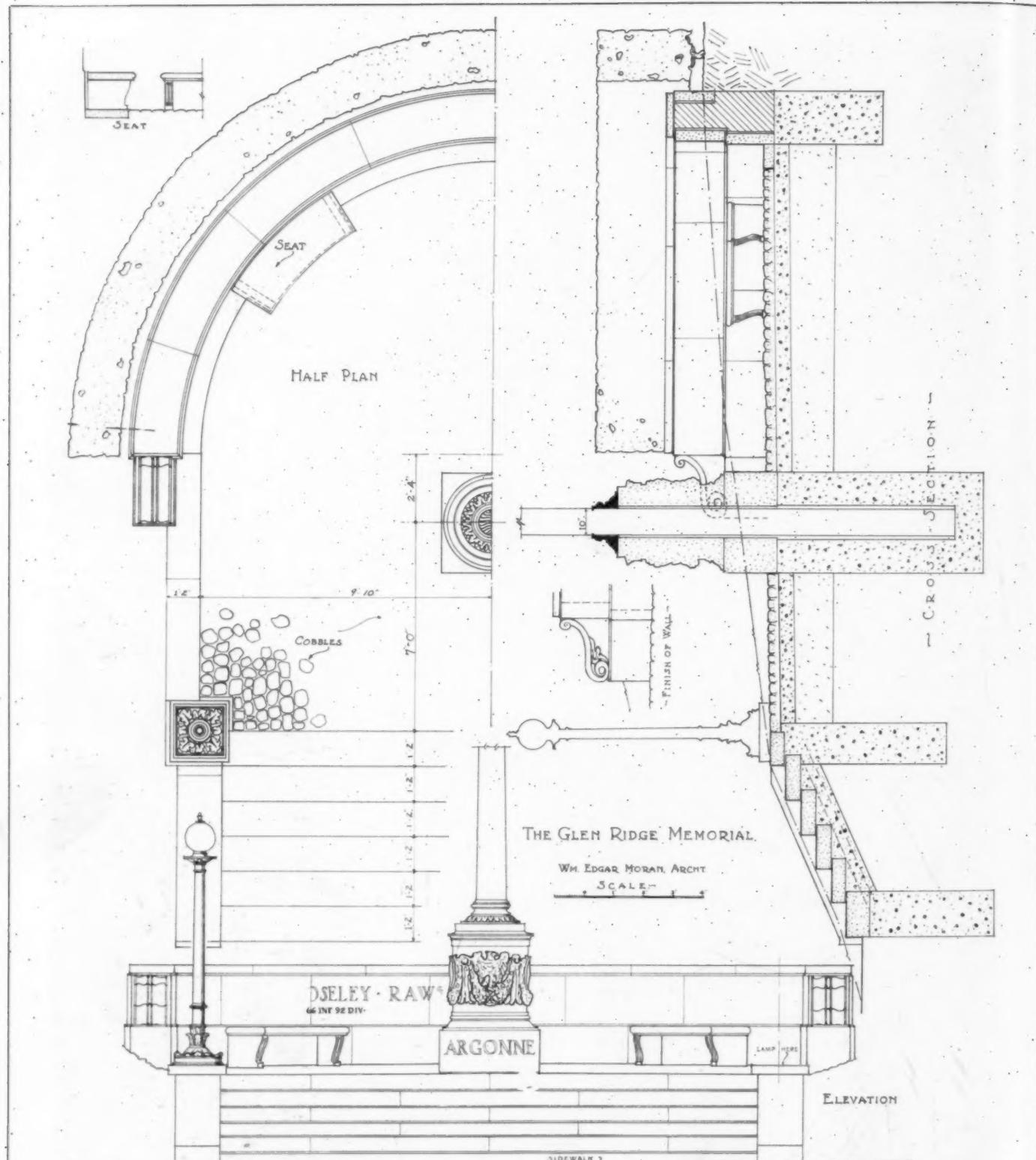
PLATE 100



Photo. Tebbs & Knell

WAR MEMORIAL, GLEN RIDGE, N. J.
WILLIAM EDGAR MORAN, ARCHITECT

Measured Details on Back



DEC
1926

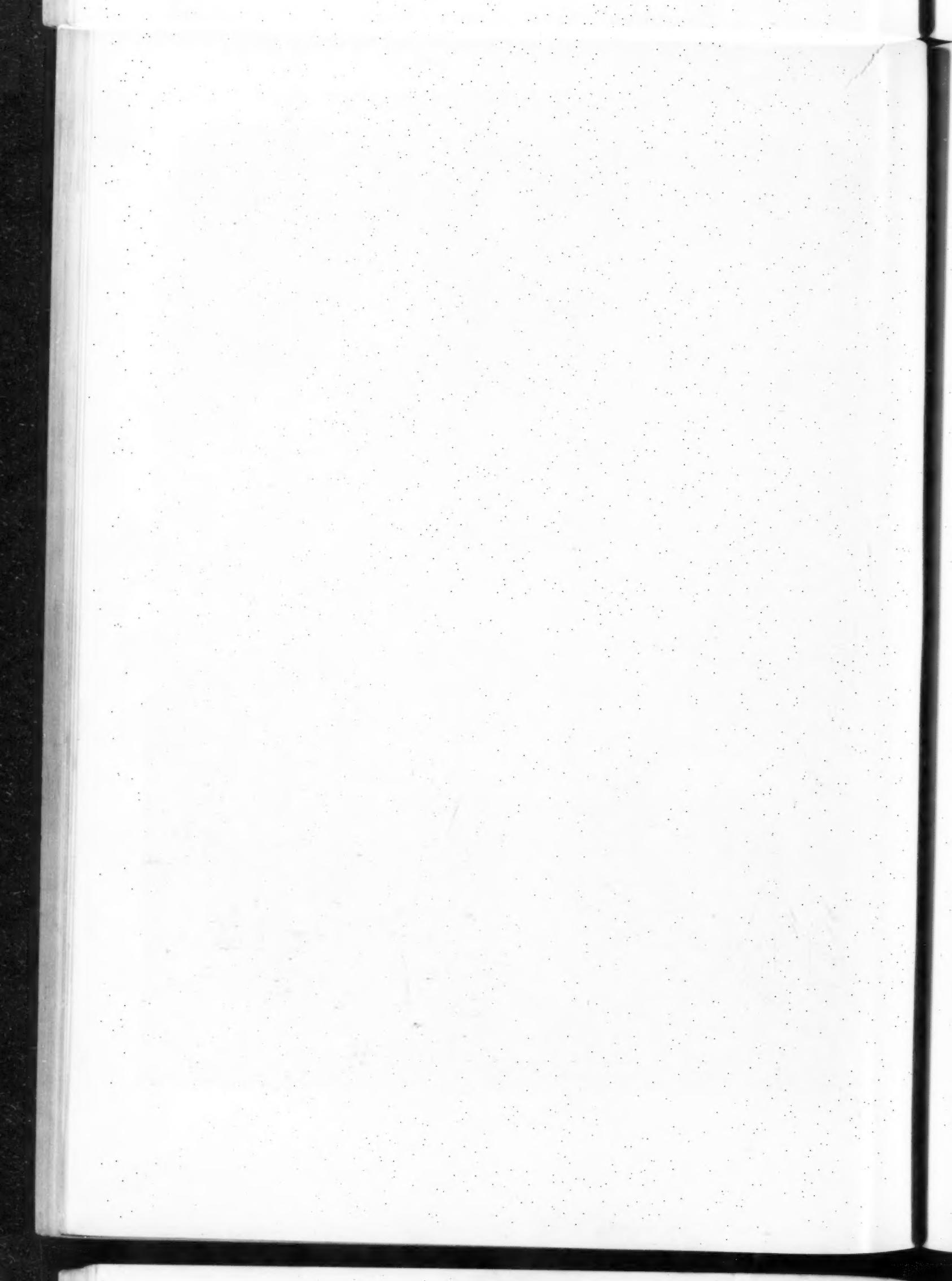
No.
17

The ARCHITECTURAL FORUM DETAILS



Photo. Gabriel Moulin

MEMORIAL TO ROBERT LOUIS STEVENSON, SAN FRANCISCO
WILLIS POLK, ARCHITECT; BRUCE PORTER, SCULPTOR



DECEMBER, 1926

THE ARCHITECTURAL FORUM

PLATE 102



Photo, Paul J. Weber

MONUMENT AT THE STATE HOUSE, BOSTON

DECEMBER, 1926

THE ARCHITECTURAL FORUM

PLATE 103

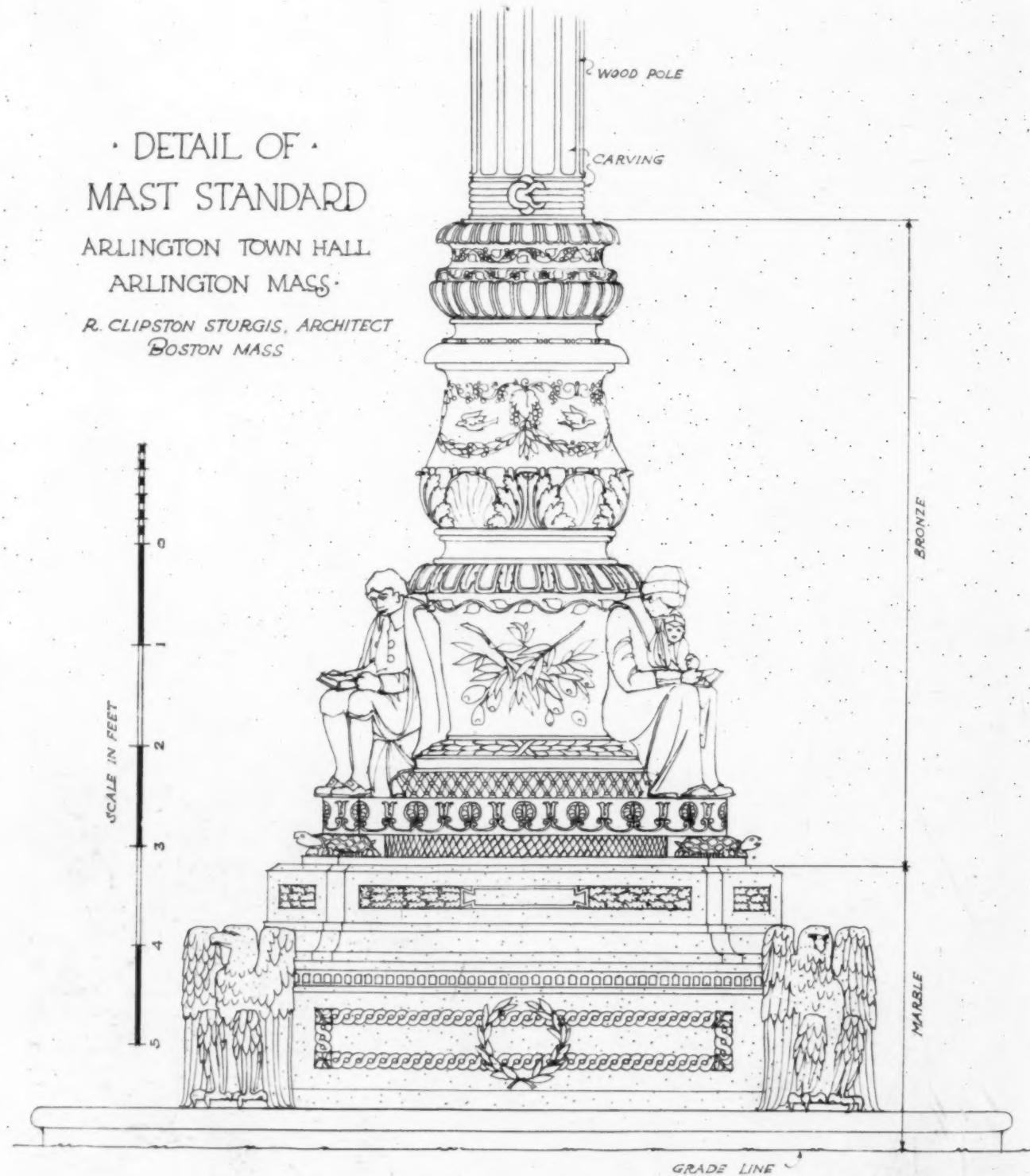


BASE OF FLAG STAFF, ARLINGTON, MASS.
R. CLIPSTON STURGIS, ARCHITECT

Measured Details on Back

DETAIL OF
MAST STANDARD
ARLINGTON TOWN HALL
ARLINGTON MASS.

R. CLIPSTON STURGIS, ARCHITECT
BOSTON MASS.



DEC.
1926

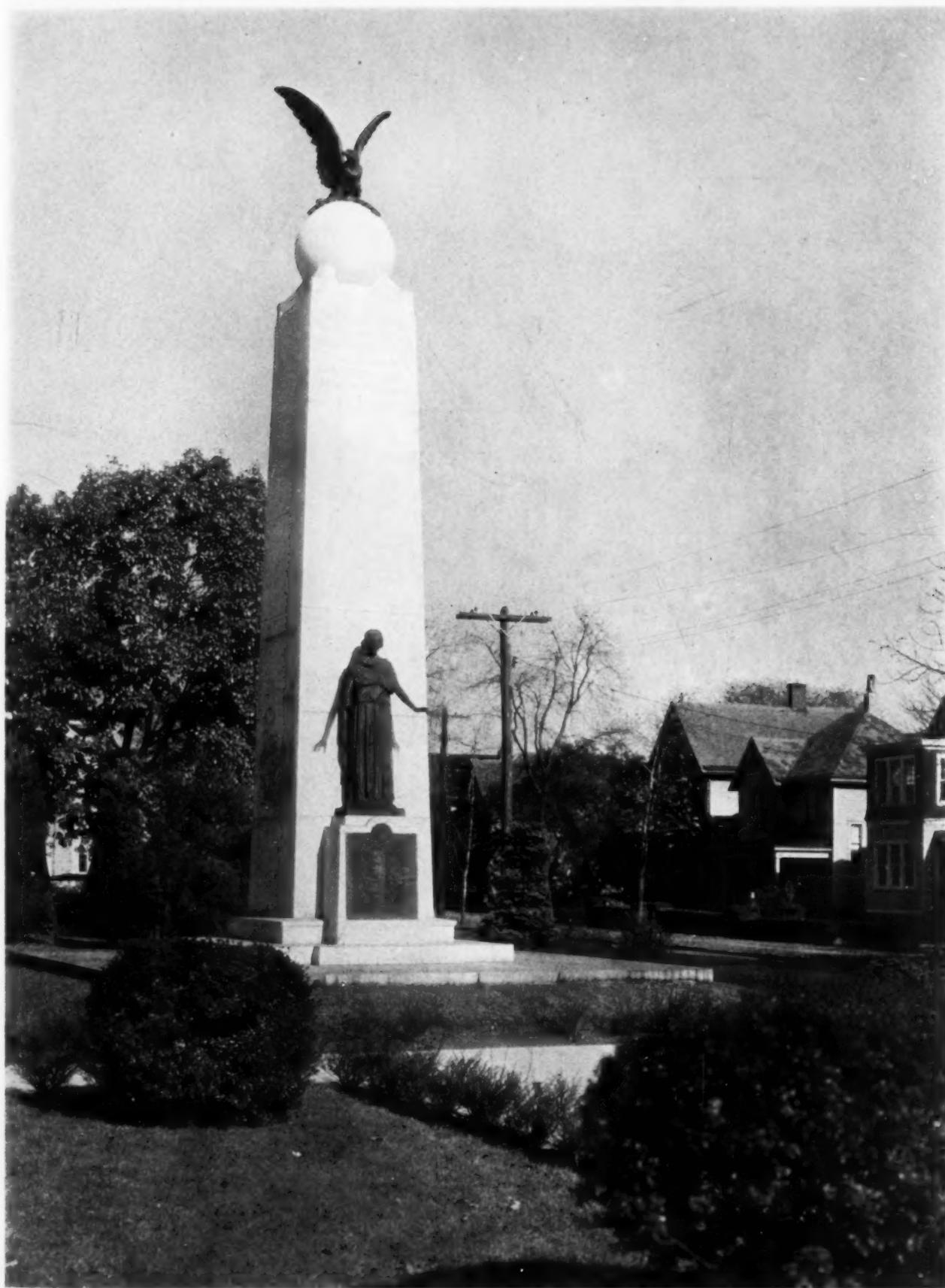
NO.
18

The ARCHITECTURAL FORUM DETAILS

DECEMBER, 1926

THE ARCHITECTURAL FORUM

PLATE 104



Photo, George H. Van Anda

WAR MEMORIAL, KEARNY, N. J.
JULIUS LOESTER, SCULPTOR

Memorial Tablets

By ROBERT P. BELLows

IN some localities there has been, of late, a surprising improvement in the quality of indoor memorials. For instance, at the top of Beacon Hill, within a 200-yard radius of my office, there are enough examples to suggest the text and illustrations for this article. This survey, therefore, will be confined to the work, old and new, in King's Chapel, to the new War Memorial in the Boston Architectural Club Library, and to that most surprising series of wall tablets lately erected by Boston architects in the stairway hall of the New England Historic Genealogical Society, at 9 Ashburton Place. If the reader wishes to go slightly farther afield, he will find recent memorials of merit in the Massachusetts State House, and in the Old North and First Churches. The work of R. Clipston Sturgis in these churches deserves an article by itself. He set a pace in the Old North which no doubt has influenced the other Boston architects, mentioned here for their work on Ashburton Place. Most of these tablets, as will be seen, hark back to old times. Wall tablets erected today in such historic buildings as King's Chapel or the Old North must necessarily conform to the eighteenth century character of those delightful old edifices. The New England Historic Genealogical Society on Ashburton Place, in commemorating worthies of other days, has sought to maintain the same character, which clothes with architectural dignity these memorials to some of New England's pioneers.

Among the most delectable spots on this hemisphere for the study of wall tablets in historical sequence, is King's Chapel. This gracious building dates from 1749. As we tread its venerable, historic aisles, between the high-backed, damask-covered pews, we view a succession of mural monuments dating from the building of the church to the present day.

1746. "M. S. *Francisæ Shirley*"—

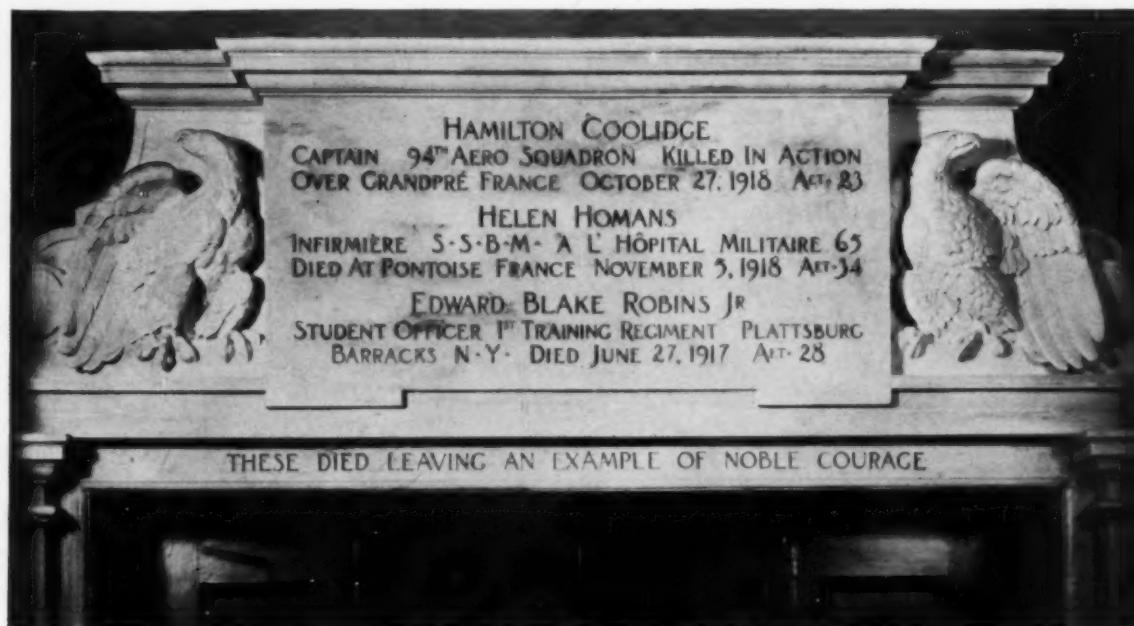
Her many virtues and those of her daughter require some 54 lines of Latin for their enumeration. Though we may stumble at their meaning, the well-cut letters are a delight.

1758. "M. S. *Caroli Apthorp*"—

Another lengthy inscription, cunningly placed upon a square white marble field. Though death provides its theme, the monument is full of life and color. The insets of tawny red marble, the urn of yellow, the golden torches (these of wood!), the painted arms and the lamenting cherub are the work of "Hen: Cheere," for he has so signed his name and "Fec" after it. What a thrill was felt when we found this same name in a book devoted to the London of the eighteenth century! There Mr. Cheere figured as a worker in marble and a maker of mantelpieces. It is not to be doubted that these wall monuments of the grander sort were ordered from London, made there, and shipped to the colonies. Here is another, perhaps in certain respects the best.

1766. "Sacred to the Memory of *Samuel Vassall, Esq.*" He was "a steady and undaunted asserter of the Liberties of England." His fortunes suffered from "the rage of the times." Yet his great-grandson, Florentius, of the island of Jamaica, found the wherewithal to commemorate his ancestor most handsomely. For once the script is in English. Much is to be recounted. Two columns of praise are deemed necessary. But what style to the lettering, what a telling spacing and arranging of the resounding phrases! The author has signed his work, "W. Tyler, Sculpsit, London."

Dr. Oliver Wendell Holmes, (himself the subject of a large tablet in King's Chapel), has well voiced the sentiment awakened by these memorials:



War Memorial Tablet Over Doorway, King's Chapel, Boston
Robert P. Bellows, Architect



VASSALL MONUMENT, KING'S CHAPEL, BOSTON
W. TYLER, SCULPTOR, LONDON 1766



MEMORIAL CHIMNEYPIECE, BOSTON ARCHITECTURAL CLUB LIBRARY
BELLows & ALDRICH, ARCHITECTS

December, 1926



Crapo Tablet. New England Historic Genealogical Society, Boston
Brainerd & Leeds, Architects



Monument to Gen. Richard Montgomery, St. Paul's Chapel, New York
Pierre Charles L'Enfant, Designer

"Lightly we glance the
fresh-cut marbles
o'er;

Those two of earlier
date our eyes en-
thrall;

The proud old Briton's
by the western door,
And hers, the Lady of
Colonial days,

Whose virtues live in
long-drawn classic
phrase,

The fair Francisca of
the southern wall."

The poet refers to the
Vassall and Shirley mon-
uments. And so on down
the years, the scholars'
Latin giving way to good
English, the lengthy eulo-
gies becoming more di-
rect and (praise God!)
shorter. Alas, the design
and lettering are losing
much of their earlier dis-
tinction and architectural
character.

By Civil War times, the
art of designing memo-
rials had sunk to its low-
est level. There is true
pathos in such inscrip-
tions as "Cabot Jackson
Russell, Captain 54th
Reg't. Infantry Mass.
Vols. Killed at Fort
Wagner, S. C., July 18;
1863 a 18." Note that
this boy-captain was only
18 when he laid down his
life for his country! This
is one of 14 glorious
names, all of sons of the
Chapel, set forever in
ugly block-cut letters on
shiny chamfered marble.
Many words are abbre-
viated. The one attempt
at Latin, "æ" is wrong.
The standard is lower.

Now don't let us sup-
pose that this decline in
the art of designing mu-
ral tablets was due to
lack of reverence or care.
Our fathers and grand-
fathers had lost touch
with the niceties of the
eighteenth century pro-
ductions. They had been

too busy with other things to work out their own artistic salvation. Art was "down, but not out." Gradually the quality of the tablets became better again. A recognition of the beauty of lettering *per se* was once more evident. McKim's firm glorified the Roman letter both in the Public Library and in the Shaw Memorial. Frank Chouteau Brown in his book taught the architects a wide range of delightful alphabets. The ancient graveyards gave up their best script. Typography improved. President Eliot reduced the bulk of many an inscription to a few impressive lines. The wording was calculated to fill acceptably a definite space. That quiet, persuasive and beloved stone carver, John Evans, knew much more about such things than his clients, the architects. But *all* were learning. Is it any wonder that those who cared became dissatisfied with the stock block letter long admired and used by the stone cutter?

In recent years only a restricted number of carefully considered memorials have been placed in King's Chapel. One of the last is that to Robert S. Peabody, "Architect, Warden of this Church." After the erection of this simple tablet, all the available space seemed to be taken. Odd corners and the stair walls to the galleries alone remained, and they were soon filled up also. In 1918 the architects of Boston erected an unusually attractive slate tablet to Peter Harrison, architect of the building. It was placed in the vestibule, unfortunately somewhat overshadowed by the



Underwood Tablet, New England Historic Genealogical Society, Boston
Strickland, Blodgett & Law, Architects



Aphorp Monument, King's Chapel, Boston
By Henry Cheere, London, 1758



Peter Harrison Tablet, King's Chapel, Boston

Edwin J. Lewis, Jr., Architect

Havens Tablet, New England Historic Genealogical Society, Boston
Gordon Allen, Architect

wooden cleat of an ancient and very necessary bell rope.

Despite the fact that "all available and proper wall space on the main floor of the church was used up," the Great War induced a reconsideration of this pronouncement. Again the children of the Chapel must be honored,—those who had "died leaving an example of noble courage." A solution was found by taking the scant space above the western door, the main door of egress under the organ gallery. The required tablet and surrounding architecture were united to form the new Memorial Doorway. The old doors remain between their richly classical columns.

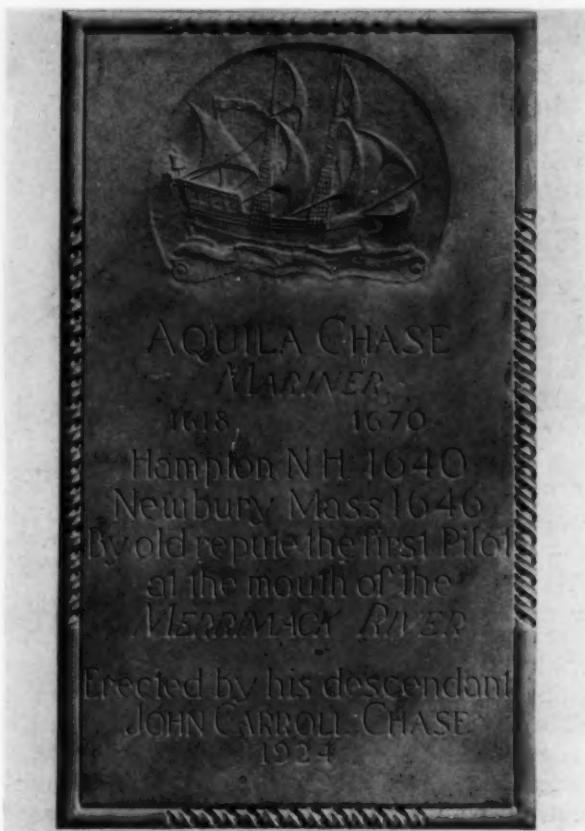
At the house of the Boston Architectural Club, 16 Somerset Street, a similar problem presented itself. In the new Memorial Library, the fireplace, mantelpiece and over-mantel are designed to form one composition. The tablet with the names of those members of the Club who lost their lives fighting in the Great War is the motif dominating the room.

Now comes the most interesting part of this narrative. A few years ago the New England Historic Genealogical Society invited contributions to a fund. Several subscribers under certain conditions were asked to name ancestors of worth for commemoration. It was planned to place tablets up and down the walls of the central staircase of the Society's new building. The response was impressive, and the Society found itself under the delightful obligation of placing a large number of tablets. There was, of course, only a limited amount of money to spend on the individual tablets together with the architectural

Deering Tablet, New England Historic Genealogical Society, Boston
Strickland, Blodgett & Law, Architects

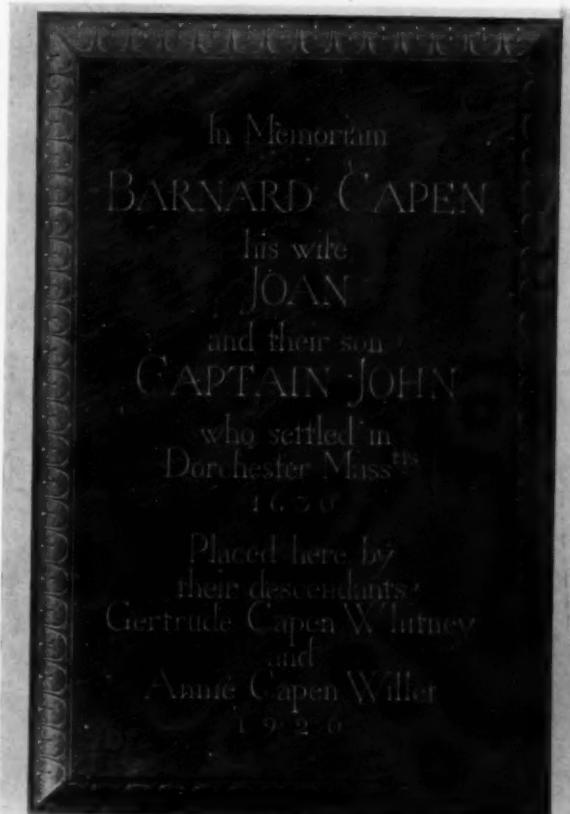
services involved. Fortunately the Society had the good sense to turn for advice and counsel to one of its members, William T. Aldrich, architect. It is to the everlasting credit of Mr. Aldrich and the architects he invited to share the work with him that they accepted this difficult and unremunerative commission. But the idea appealed to all of them. Here was a chance to try themselves out in friendly rivalry. The architects who designed the tablets, now placed up and down the Society's stairway, are William T. Aldrich; Gordon Allen; the firm (now dissolved) of Bellows & Aldrich; Brainerd & Leeds; Alexander Emerson; Ralph W. Gray; Little & Russell; the late Lawrence Park; Stanley Brampton Parker; and Strickland, Blodgett & Law. The monument to Abraham Lincoln, given by his son, the late Robert T. Lincoln, was designed by Frederic Allen, sculptor.

Much of this information as well as permission to use its photographs is due to the kindness of the Society. William Prescott Greenlaw, Librarian and Assistant Treasurer, was the originator of the scheme and has been kindness itself. Mrs. Florence Conant Howes, Assistant Secretary, has won many a distracted architect's appreciation by her helpfulness and tact in carrying out the work. There are about 60 tablets in place. Some of the designers did more, some less. The work has gone along quietly for eight years, and is not wholly finished yet. The tablets average about 10 square feet in area. No two are of the same pattern. There are limestone, slate and marble tablets. A few are of wood. Some



Chase Tablet, New England Historic Genealogical Society, Boston

Strickland, Blodgett & Law, Architects



Capen Tablet, New England Historic Genealogical Society, Boston

Gordon Allen, Architect



Barber Tablet, New England Historic Genealogical Society, Boston

Ralph W. Gray, Architect

are of brass or of bronze. Several show a combination of materials. Some are frankly experimental. Color has been introduced by the use of contrasting materials. The application of paint or enamel has been particularly successful where coats of arms form parts of the designs. Paint has also been used with good effect, in some cases, to bring out the lettering. A wise committee kept down the number of words in each inscription to a minimum. Much time and thought must have been put into the simple, condensed phrasing. Then it was up to the architects. They were given their locations and told to "go to it." The results have justified the scope given by this generous treatment.

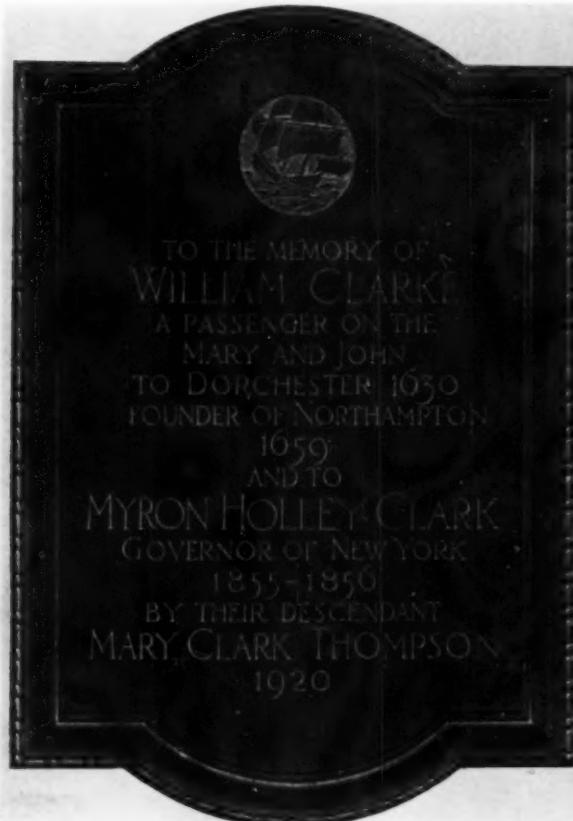
The expensive nature of such memorials was a check on over-elaboration. There was, however, a chance for well carved lettering, a simple enframement, and perhaps a bit of ornament. But this was as far as it was possible to go. The architects' designers worked their heads off over the lettering! The local



William Hamersley Tablet, New England Historic Genealogical Society, Boston
Bellows & Aldrich, Architects

antiquities, such as those already here described in King's Chapel, were never scrutinized so sharply before; and cobblers' wax was rubbed across white paper on many a headstone in the Granary Burying Ground or that on Copp's Hill. English books on memorials became the "best sellers" in architectural circles, for the English for the most part are doing this sort of thing better than we. Occult words pertaining to lettering such as "spur" and "serif" and "flourish" became common in office parlance. It is incredible how well some of this lettering is designed and executed. It is readable and full of variety. It shows a high regard for emphasis and balance. But few will ever know at what cost of toil and study it was produced! The enframement and ornament were much easier.

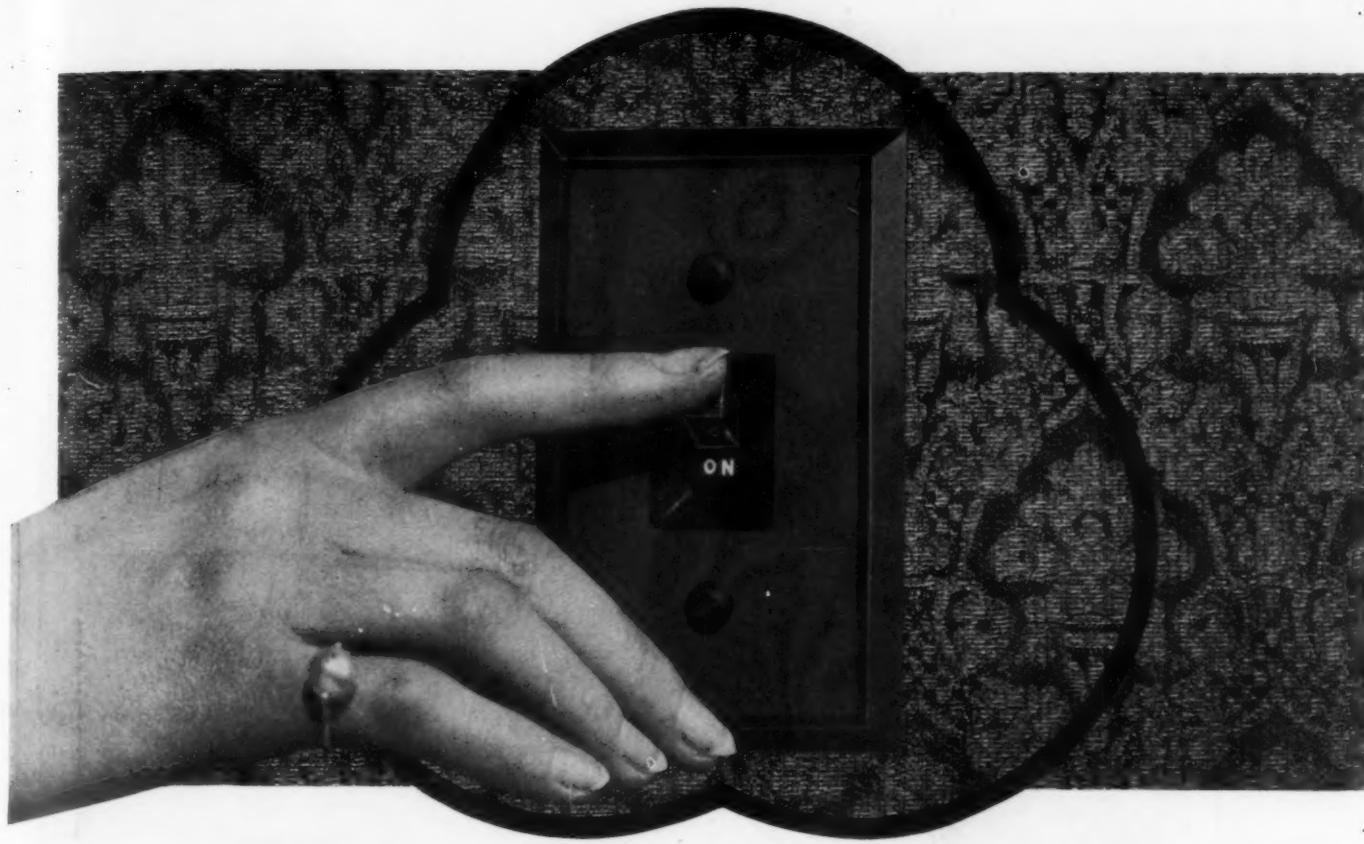
Sometime, we hope a book will be published in handsome form giving each of the tablets a full page. At that scale it would be possible to give more than a mere suggestion of their merits and their distinction.



William Clarke Tablet, New England Historic Genealogical Society, Boston
Ralph W. Gray, Architect



William Henry Wilson Tablet, New England Historic Genealogical Society, Boston
Gordon Allen, Architect



Bakelite switch plates require no polishing nor refinishing

An outstanding advantage of Bakelite plates is the fact that their color and lustrous finish will last. Frequent handling does not stain them, nor dim their lustre. Exposure in damp climates does not corrode them. Walls near them are free from the unsightly marks so often made by cleaning cloths and pastes.

An additional advantage is the fact that Bakelite is an insulator, removing all chance of static shocks when operating a switch. Bakelite switch and outlet plates are made by several leading wiring device manufacturers, all of whom mark their plates with the trademark **BAKELITE**.

Should you request it, we will see that samples are shown to you.

BAKELITE CORPORATION

247 Park Ave., New York, N.Y. Chicago Office, 636 W. 22nd St.
BAKELITE CORPORATION OF CANADA, LTD., 163 Dufferin St., Toronto, Ont.

BAKELITE

REGISTERED U. S. PAT. OFF.

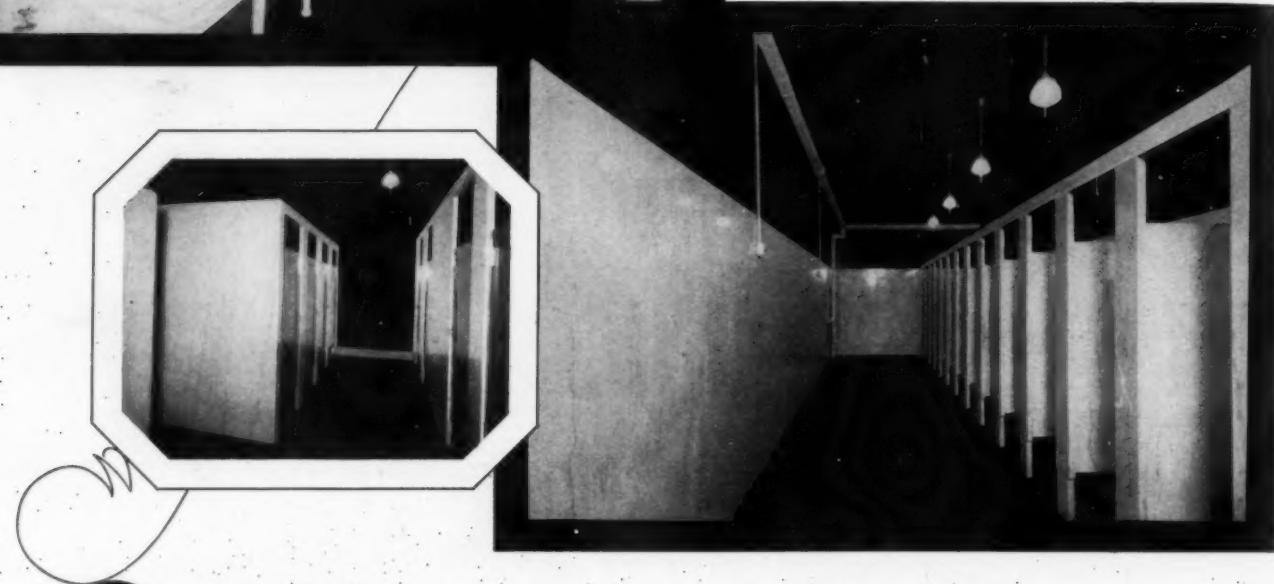
THE MATERIAL OF A THOUSAND USES



*The registered Trade Mark and Symbol shown above may be used only on products made from materials manufactured by Bakelite Corporation. Under the capital "B" is the numerical sign for infinity, or unlimited quantity. It symbolizes the infinite number of present and future uses of Bakelite Corporation's products.



Views of part of the interior marble used for the Belknap Hardware Company building, Louisville, Ky. Graham, Anderson, Probst and White, Architects, Chicago, Ill.



For Interiors of CLEAN BEAUTY

Appalachian Tennessee Marble is not only used for the interiors of great banking rooms, hotel lobbies and other interiors of regal beauty.

It is used for any interiors where long wear and *absolute cleanliness* are of first importance.

For lavatories, etc., it is ideal because its beauty is unaffected by exposure to oils, dyestuffs and other liquids.

By actual test made by T. Nelson Dale, Retired Geologist, U.S. Geological Survey, its average absorption is but 0.06 per cent, making it practically im-

pervious in resisting stains of any kind.

It is especially easy and quick to clean. In fact, careful data, kept by huge department stores having Appalachian interiors and floors, shows Appalachian Marble substantially reduces cleaning costs.

An interior of Appalachian Tennessee Marble will endure as long as the building of which it is a part, and will never cost one penny for waxing or other refinishing.

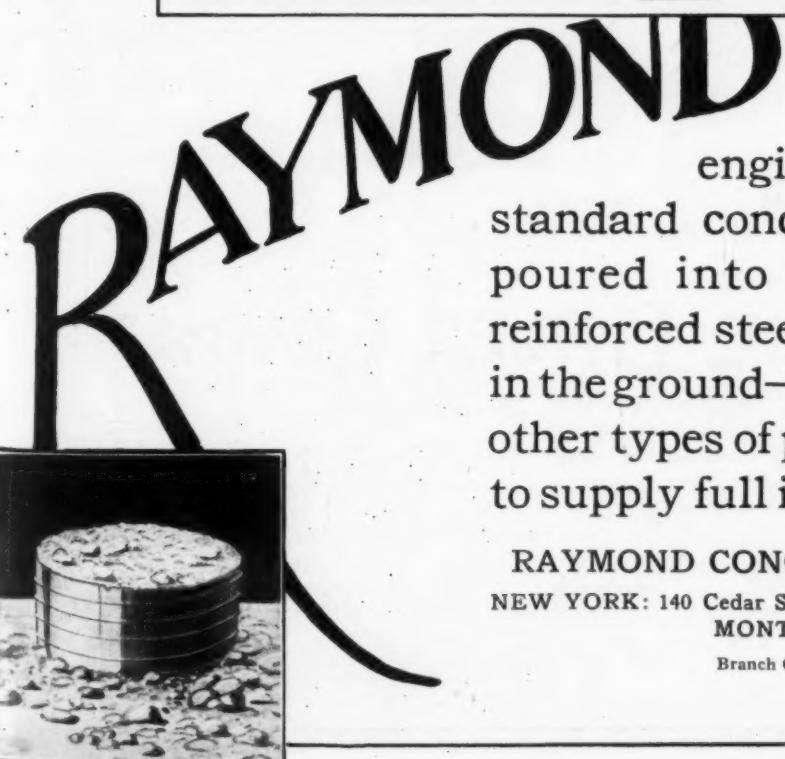
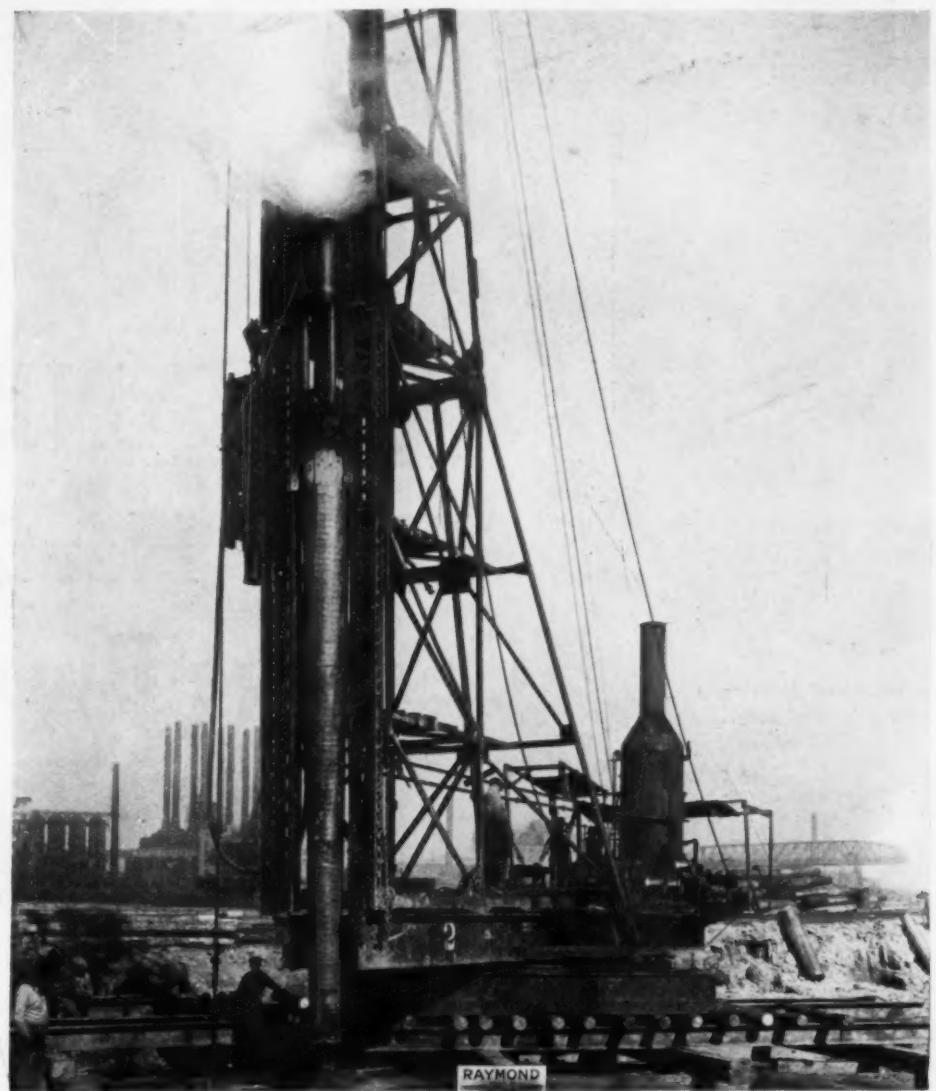
Architects are invited to send us plans and specifications for prompt, accurate cost estimates.

FOREIGN MARBLES

Our exceptionally favorable relations with leading foreign quarries and our huge, modern mill facilities enable us to make very attractive quotations on finest foreign marbles.

APPALACHIAN MARBLE COMPANY
Knoxville, Tennessee,

*A Form
for
every
pile—
A Pile
for
every
purpose*



means, to most engineers, primarily the standard concrete piles that are poured into tapering, spirally reinforced steel shells that are left in the ground—but we install many other types of piles and will be glad to supply full information thereon.

RAYMOND CONCRETE PILE COMPANY
NEW YORK: 140 Cedar St. CHICAGO: 111 West Monroe St.
MONTREAL, CANADA

Branch Offices in Principal Cities



Made in three types and fourteen sizes to heat 200 to 2600 gallons of water per hour

KEWANEE

Water Heating Garbage Burners

Make Fuel of Garbage and Rubbish

Every time the garbage man calls he carts away a lot of good fuel—and leaves a host of foul odors behind. Garbage and rubbish contain many heat units. In a Kewanee Water Heating Garbage Burner all this waste matter can be turned into fuel and used for heating water.

The By-Pass (a patented feature)

makes it possible to burn garbage without any odor, by preventing the moist matter from smothering the fire.

Built of the same fine materials (steel and rivets), by the same skilled workmen, and in the same faultless manner as Kewanee Boilers. Hence, you are assured long service free from up-keep costs.



KEWANEE BOILER COMPANY

KEWANEE, ILLINOIS

Steel Heating Boilers, Radiators, Tanks and Water Heating Garbage Burners

BRANCHES

ATLANTA, 1522 Candler Bldg.
BOSTON, 1140 Little Bldg., 90 Boylston St.
CHARLOTTE, N.C. 605 Johnston Bldg.
CHATTANOOGA, 1104 James Bldg.
CHICAGO, 822 W. Washington Blvd.
CINCINNATI, P. O. Box 75
CLEVELAND, Superior Ave., N.E., at 17th St.
DALLAS, 1903-4 Santa Fe Bldg.
DENVER, 1226-28 California St.
DES MOINES, 707 Hubbell Bldg.

DETROIT, 2051 W. La Fayette Blvd.
EL PASO, 1520 N. Campbell St.
GRAND RAPIDS, 402½ Mich. Trust Bldg.
INDIANAPOLIS, 221 Ind. Term. Warehouse
KANSAS CITY, 2014 Wyandotte St.
LOS ANGELES, 306 Crocker St.
MEMPHIS, 1812 Exchange Bldg.
MILWAUKEE, 440 Barclay St.
MINNEAPOLIS, 708 Builders Exchange Bldg.

NEW ORLEANS,
NEW YORK,
PHILADELPHIA,
PITTSBURGH,
ST. LOUIS,
SALT LAKE CITY,
SAN ANTONIO,
SAN FRANCISCO,
SEATTLE,
TOLEDO,

1018 New Orleans Bk. Bldg.
570 Seventh Ave.
806 Real Est. Trust Bldg.
Empire Bldg.
4200 Forest Park Blvd.
204 Dooly Bldg.
502 Calcasieu Bldg.
635 Mission St.
326 Columbia St.
415 13th St.

CANADIAN REPRESENTATIVES: Dominion Kewanee Boiler Co., Ltd., 66 Richmond St., East, Toronto 2, Ontario

Plasta-Saver

Lowers the Cost of

STEEL-STRENGTHENED PLASTERING



*T*HE advantages of metal lath construction are so obvious that the architect will find satisfaction in knowing that the $\frac{1}{8}$ " flat rib North Western PLASTA-SAVER Metal Lath so lowers its cost that he can use it in even his low priced work.

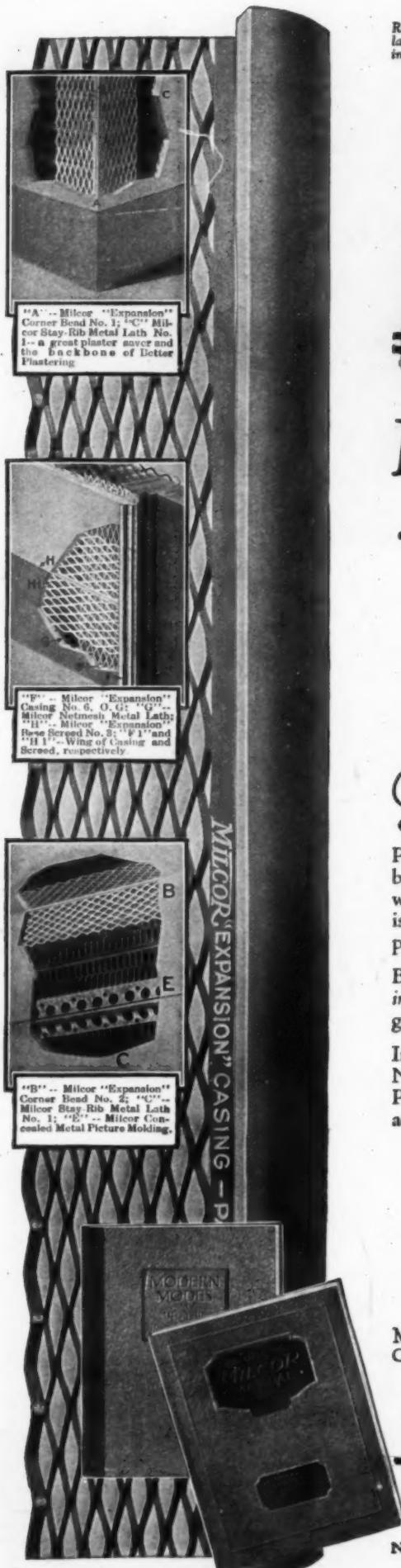
Shall we send your specification writer full particulars and samples of PLASTA-SAVER?

NORTH WESTERN EXPANDED METAL CO.

1234 Old Colony Bldg., CHICAGO

NORTH WESTERN
 METAL LATH

Plasta-Saver



Residence of L. L. Dougan, Architect, Portland, Ore. Milcor "Expansion" Casings for interior and exterior door-and-window trim.



It Pays . . . • • to build this way!

The foreman who superintended the installation of Milcor "Expansion" Casings in the home shown above, was surprised to find that this superior type of door-and-window-trim actually showed a big saving. He wrote us a mighty enthusiastic letter — here is part of it:

"Comparative costs of wood casings and Milcor "Expansion" Metal Casings showed that a considerable saving resulted wherever Milcor Casings are used. Wood here is very cheap (in Oregon). In other sections where wood is expensive, the saving would be still greater."

THE fine thing about these Milcor Products is that they not only improve the appearance of any home or building, but they also insure permanence and firesafety—all at a price that will satisfy the most conservative builder.

People are inclined to balk at much of this talk about quality construction. It may be very fine, they think, but they can't afford it! Here are products, however, that will save money not only in first cost but principally in maintenance expense. It is no longer a question of whether the builder can afford these modern Milcor products, but rather, *can he afford to build without them?*

By all means investigate Milcor "Expansion" Casings—get samples and prices; *install them* on one job; then you'll appreciate the reasons for their success and growing popularity.

Investigate also the many other products made by Milcor—Stay-Rib Metal Lath, Netmesh Metal Lath, "Expansion" Corner Bead, Base Screed, Concealed Metal Picture Molding, Metal Tile Roofing, Architectural Sheet Metal, etc. Getting acquainted will cost you nothing and will obligate you not one bit.

Would you like to have a copy of our now-famous book on "Modern Modes in Better Plastering" and "The Milcor Manual", a technical data book on Milcor Metal Lath and allied products? We'll gladly send you both. Yours for the asking. The coupon, a Post Card, or a letter will do.

Member of
National Council
for Better Plastering



Member of
Associated Metal Lath
Manufacturers

MILWAUKEE CORRUGATING COMPANY, Milwaukee, Wisconsin
Chicago, Ill. Kansas City, Mo.

MILCOR

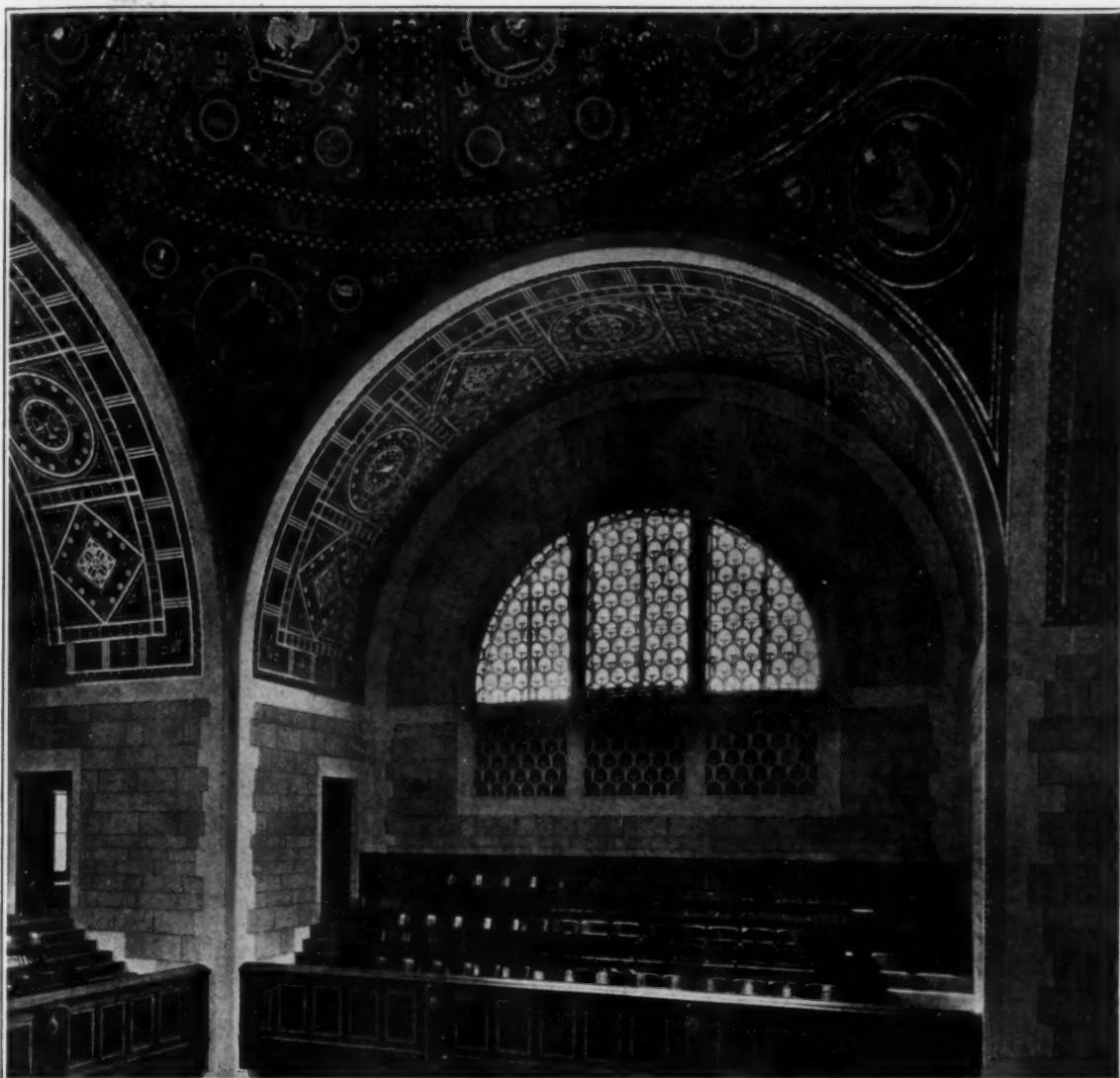
MILWAUKEE CORRUGATING CO., Milwaukee, Wisconsin
Please send "Modern Modes in Better Plastering" and
"The Milcor Manual", without cost or obligation.

Name _____ Address _____

Metal Lath and Roofing
in Steel, Zinc,
Copper and



INGOT IRON



Vault and roof dome of Central Hall of the National Academy of Sciences, Washington, D. C. Guastavino's tile construction with soffit course of Akoustolith sound absorbing artificial stone. Bertram G. Goodhue, Architect

Perfect Acoustic Qualities Can Now Be Predetermined

It is no longer necessary to depend on accident for perfect acoustics.

Akoustolith, the R. Guastavino Company's sound absorbing tile, is used to get perfect acoustic qualities, combined with beautiful architectural effects.

Akoustolith has six-fold the absorbing

power of any existing masonry construction.

It can be had in a variety of pleasing colors. It is extremely light and can, therefore, be used where heavier material would be impractical.

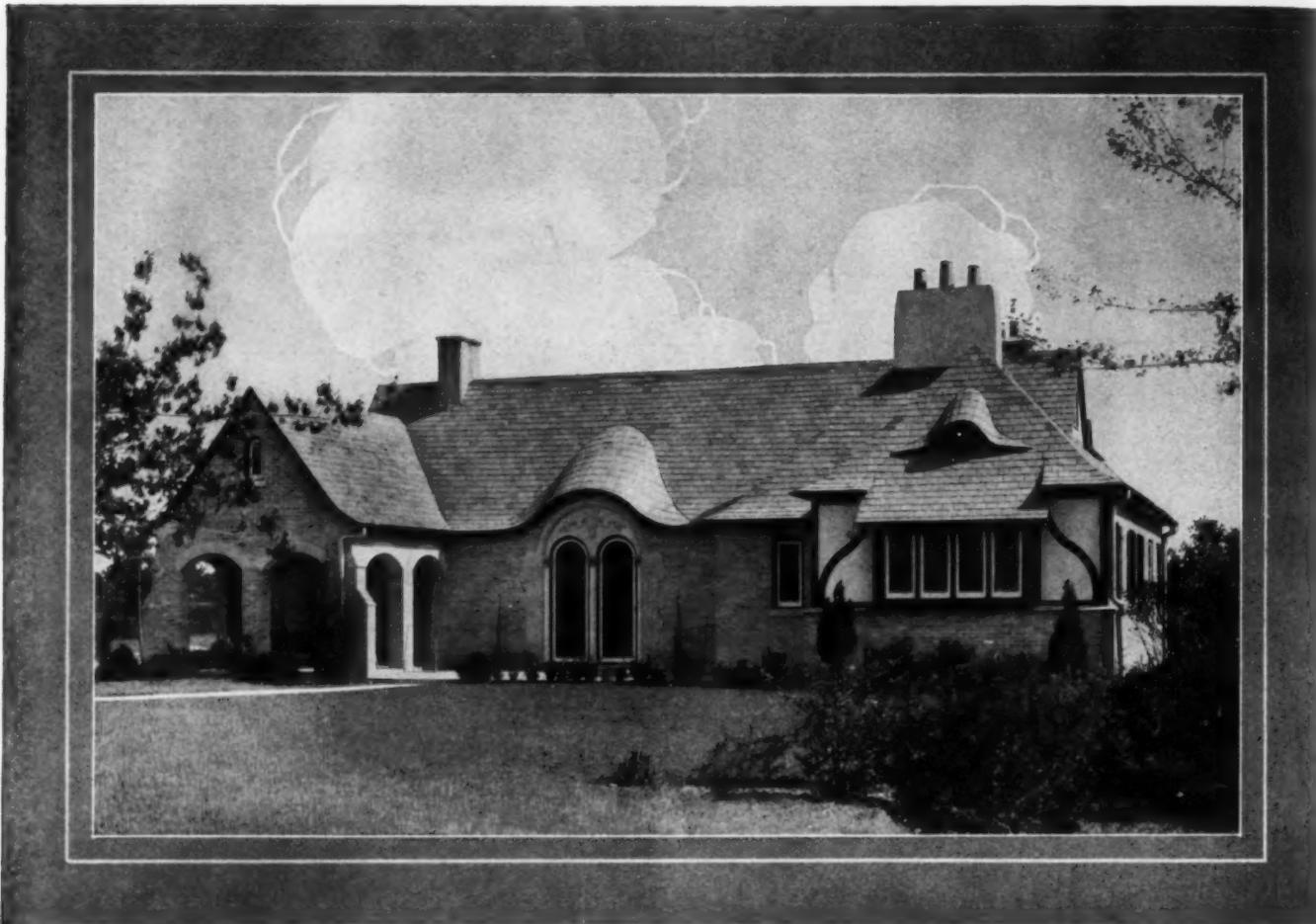
Akoustolith answers the problem of how to build vaults with no unpleasant reverberations.

R. GUASTAVINO COMPANY

1133 Broadway, New York City

R. Guastavino Company of Canada, New Berks Bldg., Montreal

40 Court Street, Boston, Mass.



An Atmosphere of Good Taste

HOME OF WM. A.
SAILER, HIGHLAND
PARK, DALLAS
Fooshee & Cheek,
Architects
Harry J. Curtis, Builder



Acme Brick do more than give constant pleasure to the owner—they surround him with an atmosphere of good taste. This interesting and pleasing cottage-type home is faced with Acme Perla Light Gray wire-cut weatherproof Face Brick.

Thirty-five years in the art of brick-making and ten Acme owned-and-operated plants enable us to offer—"a brick for every type, a color for every color scheme."

Acme Brick Company
Manufacturers of the Products We Sell

ACME BRICK

Offices and Display Rooms

(Where Your Color Schemes Can Be Solved)

**Plants—Owned
and Operated**

Bennets and Denton,
Texas; Ft. Smith, Little
Rock, Malvern, Perla
and Pine Bluff, Arkansas;
Cleveland, Oklahoma;
City and Tulsa, Okla-
homa.

Abilene, Texas
Amarillo, Texas
Beaumont, Texas
Corsicana, Texas
Dallas, Texas

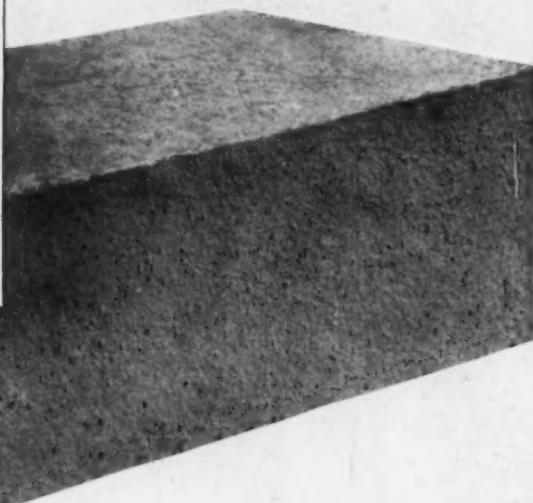
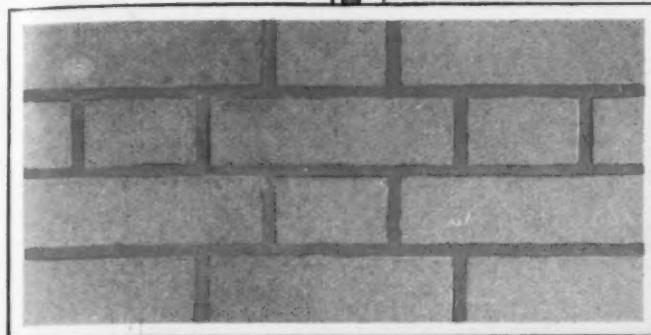
Ferris, Texas
Ft. Smith, Arkansas
Fort Worth, Texas
Galveston, Texas

Houston, Texas
Lake Charles, La.
Little Rock, Arkansas
Memphis, Tennessee

New Orleans, La.
Oklahoma City, Okla.
Port Arthur, Texas
San Antonio, Texas

Shreveport, La.
Tulsa, Oklahoma
Waco, Texas
Wichita Falls, Texas

ANNUAL CAPACITY 170 MILLION FACE BRICK



SUMMER-GREYS
Worthy to rank with "Bradford Reds"



THE expanses of wall in many large buildings such as Churches, Community and Memorial Buildings depend for their architectural character largely upon the brick of which they are built. Architects and builders value GREY because it possesses high color value, affords subtle play of light and shadow, and, particularly when used in large areas, assumes a richness and variety which lend character wholly apart from any ornament the walls may possess. SUMMER GREYS and BUFFS with their fine, rich color and interesting textures lend architectural dignity to any building in which they are used, and throw into bold relief any ornament the architect wishes to emphasize.

The unquestioned architectural merit of "SUMMER GREYS"—their beauty, color, durability and excellence in every small detail—constitute compelling reasons why leading Architects find them the ideal Face Brick.

Dry Press and Wirecut in all shades and textures.

HANLEY COMPANY, Inc.
FACE
BRICK

9 East 46th St., New York, N. Y.
Bradford, Pa.

formerly
BRADFORD BRICK & TILE CO.
Plants at Bradford, Lewis Run, Summerville, Pa.





Aymar Embury, II.
Architect

Common Brick gives Full Play to the Skill of the Architect

COMMON BRICK is "common" in the best sense of the word. It is a natural, native material — varying widely in shade and color.

Thus it lends itself readily to the creative imagination of the architect. Truly it is clay in the hands of the man who knows how to mold distinctive beauty.

Architects, themselves, have ushered in the new day in the use of Common

Brick. By developing a wide variety of appropriate bonds and patterns, and single-coat whitened effects for suitable types of architecture, they have rendered an outstanding service to home building America.

For Common Brick adds to brick's inherent advantages, a price saving which leaves a margin for those finishing touches desired by architect and owner.

THE COMMON BRICK MANUFACTURERS' ASSOCIATION of AMERICA

At Your Service

These District Association Offices and
Brick Manufacturers Everywhere

Chicago	614 Chamber of Commerce Bldg.
Denver	1735 Stout St.
Detroit	400 U. S. Mortgage Trust Bldg.
Hartford, Conn.	226 Pearl St.
Los Angeles	342 Douglas Bldg.
New York City	1710 Gr'd Cen. Term'l Bldg.
Norfolk, Va.	112 West Plume St.
Philadelphia	303 City Centre Bldg.
Portland, Ore.	906 Lewis Bldg.
Salt Lake City	301 Atlas Bldg.
San Francisco	932 Monadnock Bldg.
Seattle, Wash.	913 Arctic Bldg.
Springfield, Mass.	301 Tarbell-Watters Bldg.

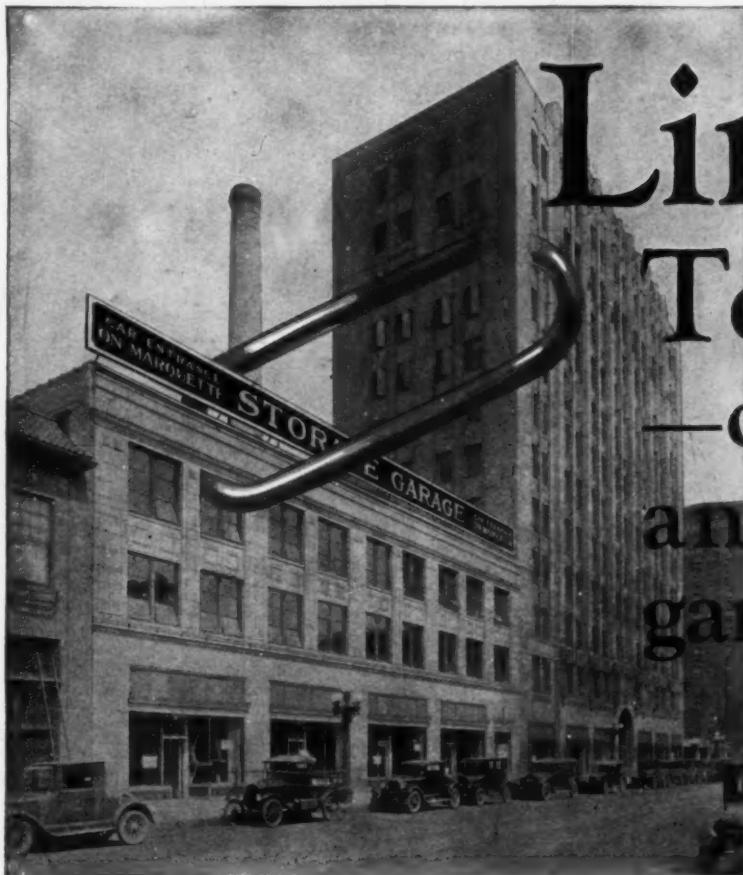
2134 Guarantee Title Bldg.,
Cleveland, Ohio

BRICK
forever

Brick Books for Your Use

- "Skinned Brickwork" (15c)
- "Brick, How to Build and Estimate" New Edition (25c)
- "Hollow Walls of Brick"—FREE
- Check above, and send for any or all of these books.

AMERICA NEEDS MORE GARAGES IN HER CITIES



Linked Together —offices and handy garage

Baker Office Building Garage,
Minneapolis, Minn.
Larsen and McLaren,
Architects
Capacity - - - 275 Cars

d'Humy Motoramps enable patrons to drive to any floor without stopping or delay. No elevator costs for owners.

THAT the business man who drives downtown in the morning must find garage facilities admits no argument. Even before "no parking" ordinances outlawed it entirely, curb parking was so hazardous as to be forbidding. Downtown parking garages are a necessity in every city.

Talk it over with office building owners. They are vitally interested. They need convenient garages to protect the rental desirability of their office building properties. But you can go further and show them that a Parking Garage is in itself a most profitable property improvement—one that will pay probably a higher net return than any other building investment.

*Let our booklet "Building Garages for Profitable Operation" give you some leading information.
Ask for new Edition "F."*



RAMP BUILDINGS CORPORATION

21 East 40th Street

New York, N. Y.

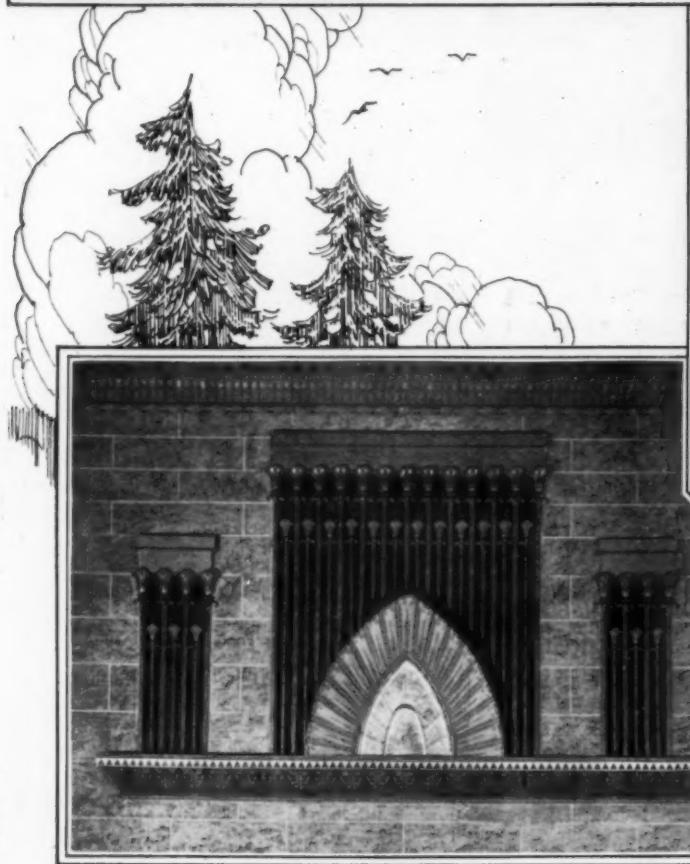
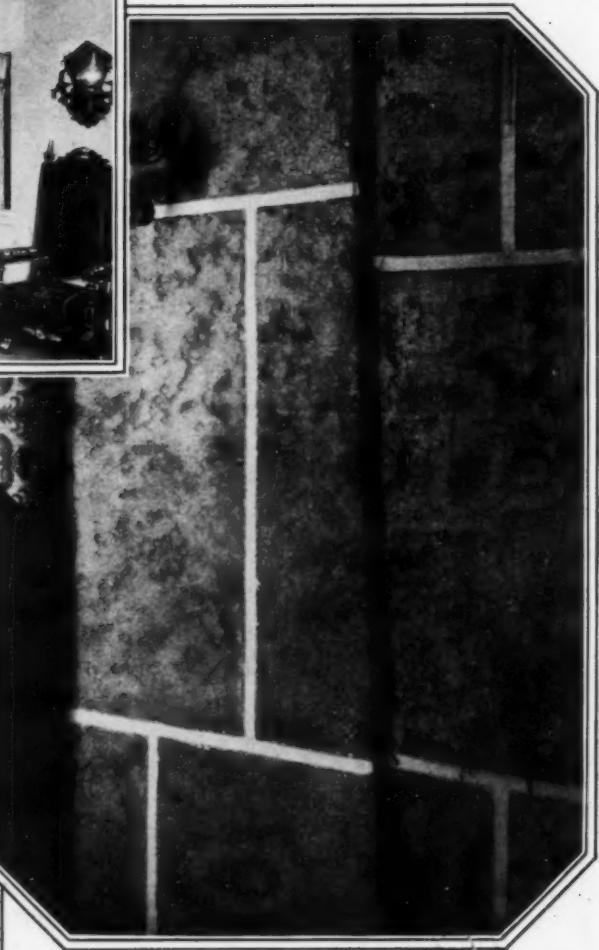
GARAGE ENGINEERS

CONSULTANTS ON PROMOTION AND GARAGE OPERATION

Interior views from the
Dimond Theater, Oakland, Calif.

Architect
A. A. Cantin, San Francisco, Calif.

Plastering Contractor
P. H. Donnelly, Oakland, Calif.



As far West as California ≈ Banner continues to be the dominating finish

To transport from Ohio, lime for finishing the walls of California's finest buildings costs much in the way of freight charges. Unless this added expense were warranted by the superior results achieved and the saving in labor and material, Banner Finishing Lime would not be used there.

In Oakland's newest theater, the interior walls are finished in the varied and beautiful texture or period finishes—with BANNER. The close-up on the left page il-

lustrates a rough texture executed with Banner Lime and sand—no gauging material was used. And yet the walls are stone-hard with acoustical properties that greatly pleased the builders.

For the kind of walls that have as long a life as the building itself, giving the fullest measure of satisfactory service down through the years, Banner Finishing Lime continues to be the dominating finish.

Ask for more information.

NATIONAL MORTAR & SUPPLY COMPANY

Federal Reserve Building, Pittsburgh, Pa.



Banner

"Easy to spread—
hard to Beat!"



Made in the world's largest plant devoted to the production of one brand—from an unequalled deposit of limestone in the well-known Ohio high magnesium field.

MONOLITHIC CONCRETE



St. John's Episcopal Church, Los Angeles. Both exterior and interior are monolithic exposed concrete—except the facade, which is Tufa. Architectural ornaments were cast in place. Architects: Pierpont and Walter S. Davis, Los Angeles. Con-

tractors: Clinton Construction Co., San Francisco. New, illustrated booklet, "The Concrete of the Architect and Sculptor," will be sent promptly on request. In writing, please address the nearest office listed below.

Concrete for Permanence—and for Beauty

Atlanta
Birmingham
Boston
Chicago
Columbus
Dallas
Denver
Des Moines

Detroit
Indianapolis
Jacksonville
Kansas City
Lincoln, Nebr.
Los Angeles
Milwaukee
Minneapolis
Nashville
New Orleans
New York
Oklahoma City
Parkersburg
Philadelphia
Pittsburgh

Portland, Oreg.
Richmond, Va.
Salt Lake City
San Francisco
Seattle
St. Louis
Vancouver, B. C.
Washington, D. C.

PORLTAND CEMENT ASSOCIATION

A National Organization to Improve and Extend the Uses of Concrete

zouri key-set store front construction

zouri key-set store front construction

zouri key-set store front construction



It is a substantial, straightforward, business-like store front, and has proven its value as a business getter

Zouri Key-Set Store Front Construction

Store front display is one form of advertising in which the actual goods constitute the main selling appeal. How important that they have every advantage of frame and setting!

A Zouri Store Front takes the place of those elements which enhance an advertisement on the printed page. Its substantial, easy lines and rugged copper construction speak quality. It is an evidence of liberal patronage; a standing testimonial that other satisfied customers have built up a flourishing business.

The architect, going further into the matter, finds underneath a unique construction that fulfills the promise of its surface beauty. Zouri's special safety features—Indirect Key Setting, Self-Adjusting Setting Block, Drawplate and Reinforcing Bracket—assure him of satisfaction during its installation and its life.

Send for our detail sheets and data book on Zouri. They tell the story

Zouri Drawn Metals Company

Factory and General Offices

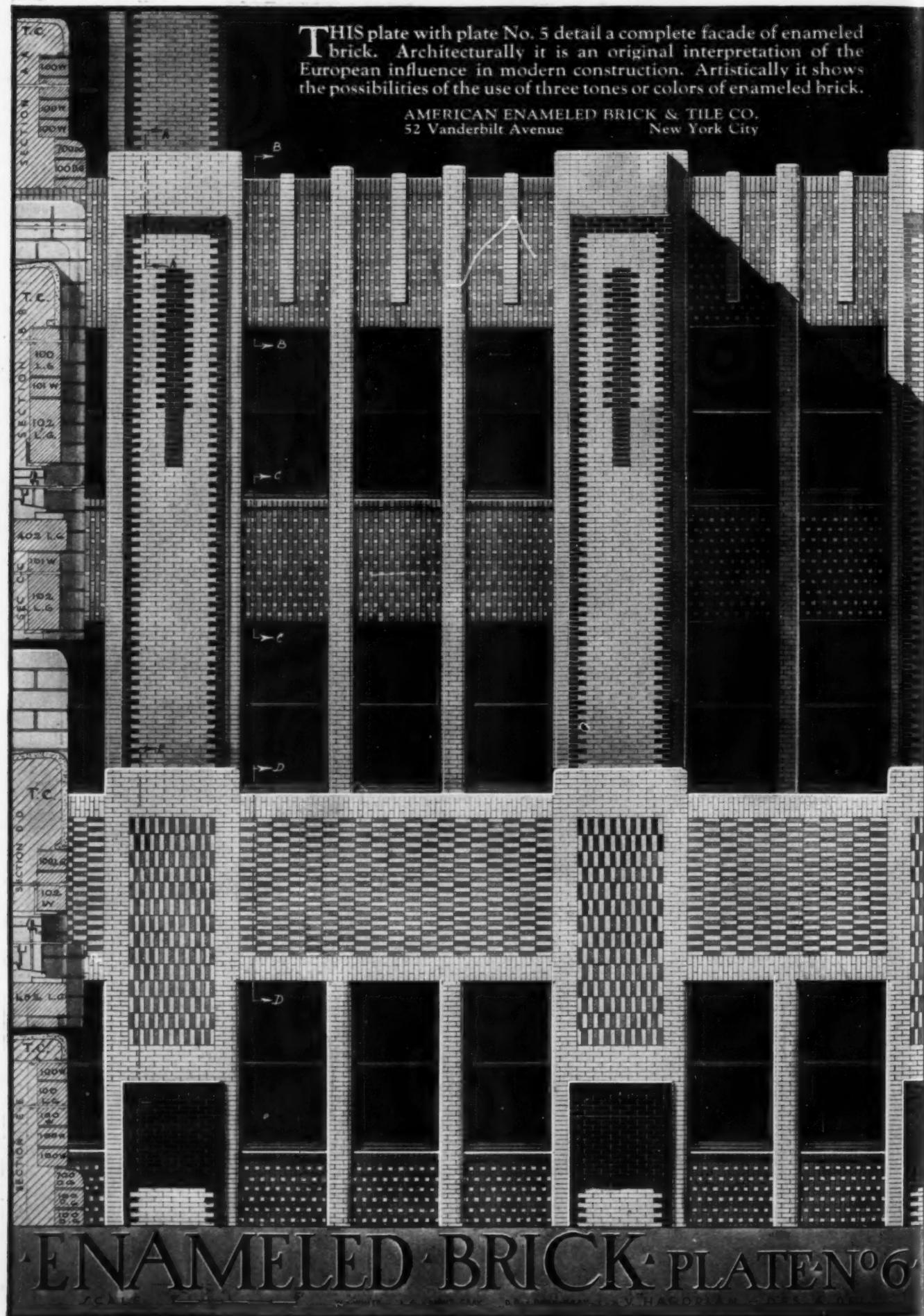
1608 East End Avenue, Chicago Heights, Illinois

DISTRIBUTORS IN PRINCIPAL CITIES—NAMES ON REQUEST

zouri key-set store front construction

zouri key-set store front construction

zouri key-set store front construction



Copies of these plates in folio will be mailed upon request.

Armstrong's Linoleum

PLAIN

INLAID

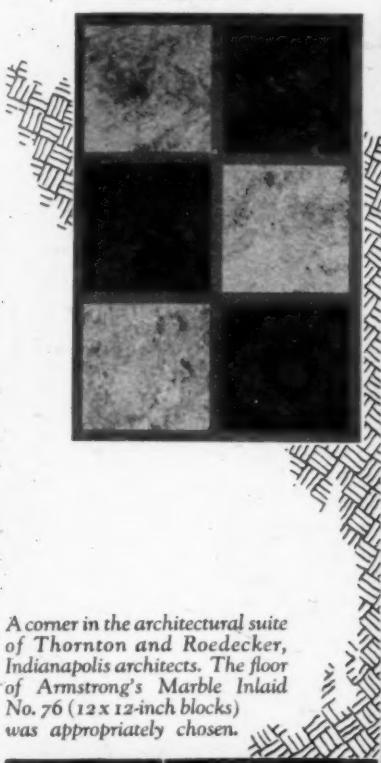
JASPE

PRINTED

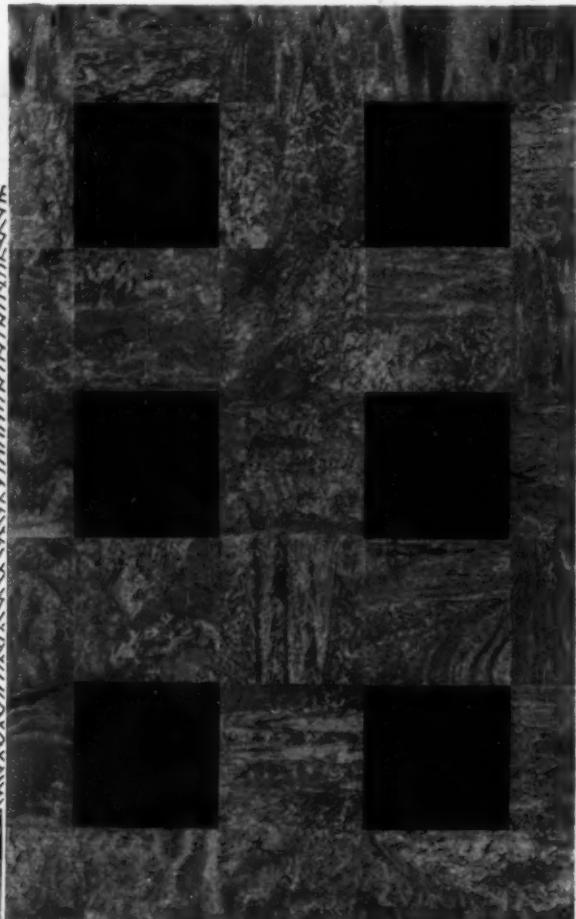
for every floor
in the house

ARMSTRONG'S MARBLE INLAID NO. 71
Blocks are 6x6 inches

INSET MARBLE TILE INLAID NO. M-63
Blocks are 5½ inches
Interliners ½ inch wide



A corner in the architectural suite of Thornton and Roedecker, Indianapolis architects. The floor of Armstrong's Marble Inlaid No. 76 (12 x 12-inch blocks) was appropriately chosen.



HANDCRAFT TILE INLAID NO. 3132
Blocks are 3 inches wide

Color, Pattern, Permanent Beauty—These Floors Have All—and More

THE HOME-PLANNER today looks to his architect for complete details of interiors.

Take, for example, the home of Spanish design that must be built at moderate cost. You specify wall-texture, the wrought-iron effects, and other notes that will help your client complete the decorative treatment. You can go a step further without increasing the cost—and perhaps even save money—by specifying floors that also contribute to the interior design.

In Armstrong's Linoleum you can get a design to fit almost any type of room. And these floors, cemented

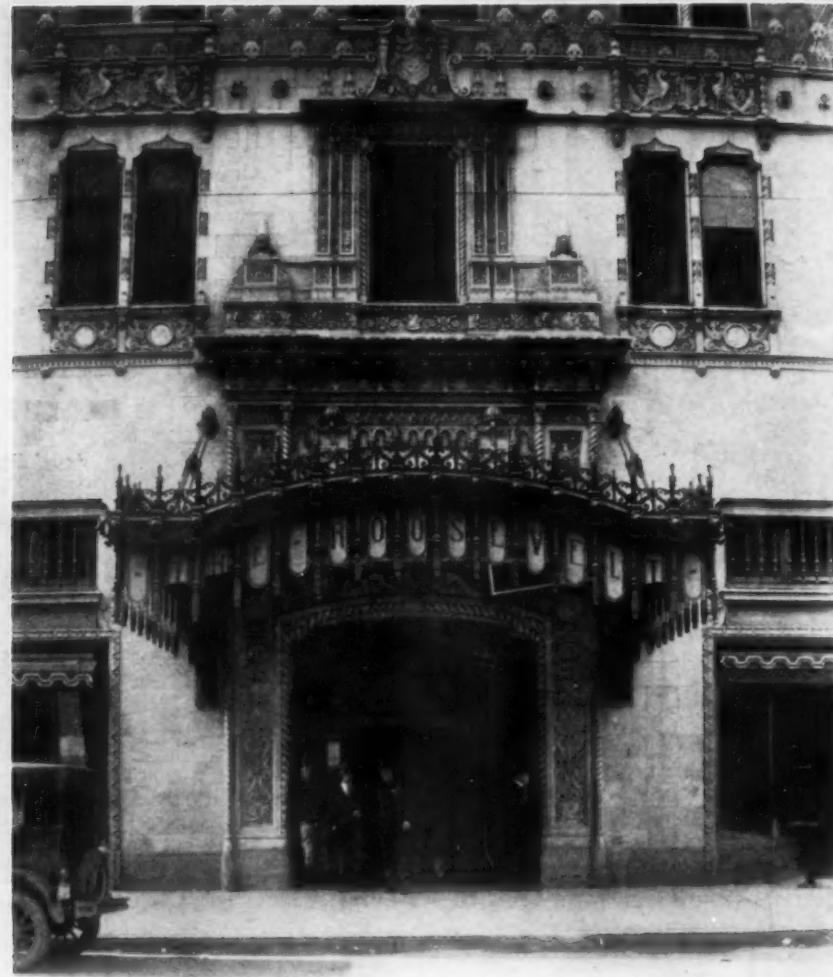
in place over a layer of builders' deadening felt, are a structural part of the building. The first cost is the last cost.

When considering any decorative floor-treatment, you will find there is an Armstrong floor to complement ideally the other units you have in mind. Our Bureau of Interior Decoration will be glad to send you reproductions of the newest designs in linoleum floors, or even help you in planning your color schemes. You may find good use for some of the suggestions which our decorator will gladly send you, without obligation, upon request.



Armstrong Cork Company, Linoleum Division, Lancaster, Pennsylvania





Entrance, The Roosevelt Hotel, New Orleans, La., Favrot & Livaudais, Architects. Lower story ashlar and ornamental enrichment in unglazed buff-grey Terra Cotta.

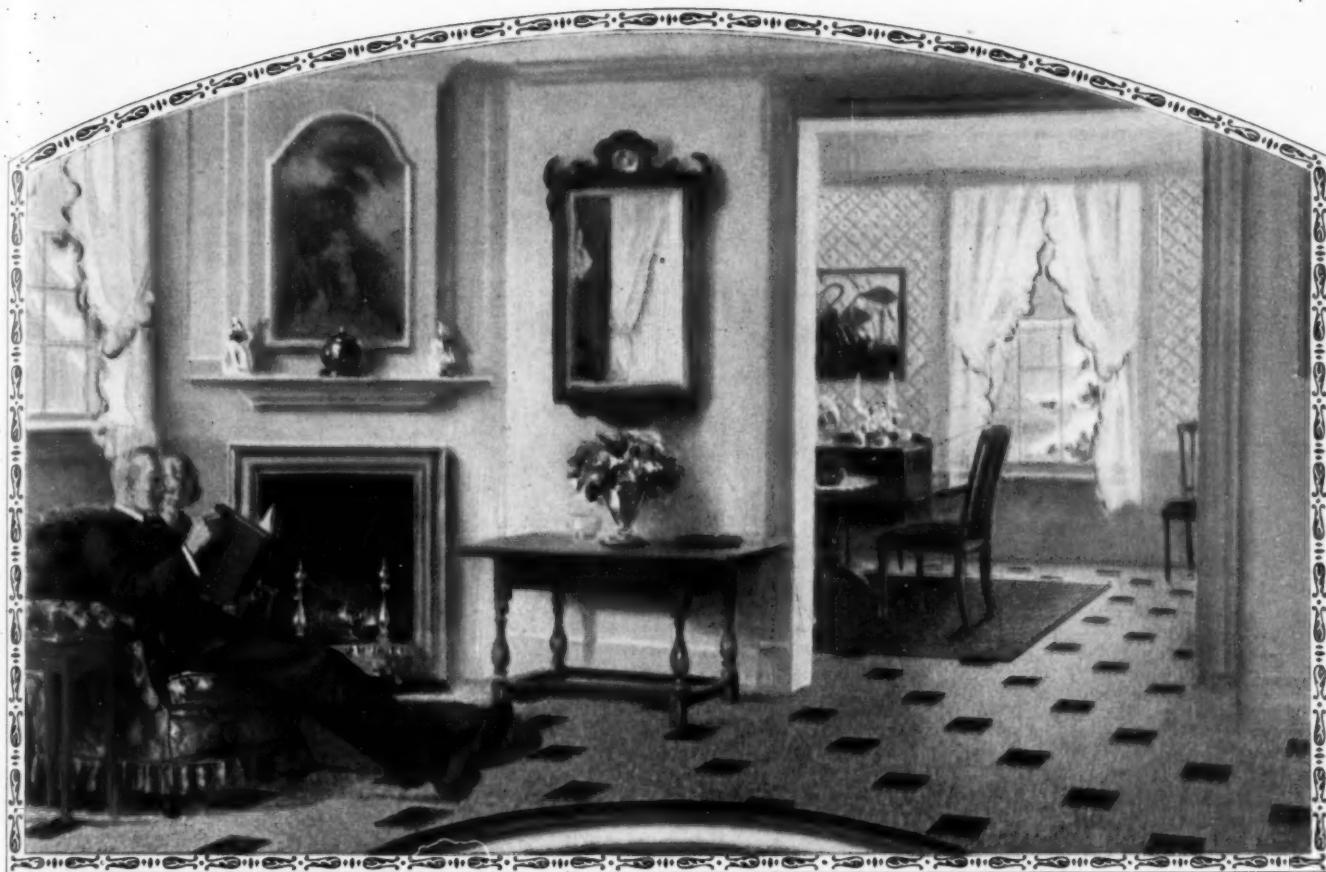
The Decorative Value of
TERRA COTTA

For lower story finish and effective enrichment of entrance features Terra Cotta offers you unsurpassed possibilities.

Messrs. Favrot & Livaudais demonstrate in this building the success attending a well chosen motif reflecting local atmosphere and beautifully detailed.

Note: Architects will also find many fine motifs in "Terra Cotta of the Italian Renaissance" published by this Society, \$3.00 per copy.

NATIONAL TERRA COTTA SOCIETY
19 WEST 44th STREET NEW YORK, N.Y.



Pattern and color contrast are contributed by this new wide-spaced inset tile floor—
GOLD SEAL INLAID, Belflor Pattern No. 2172/2. The 6-inch tiles are 18 inches apart.

New—a distinguished tile design by Nairn

An inlaid linoleum which gives the appearance of a custom-laid floor while permitting the economy of the usual one-piece installation. This is the unique combination of advantages presented in the extra-wide spaced *Belflor Inset Tiles*—a new group of patterns exclusive with Nairn GOLD SEAL INLAIDS.

Here, indeed, is a valuable addition to the architect's resources for enhancing the individuality of an interior and providing a thoroughly permanent flooring at moderate cost.

The interior above illustrates how the wide-spaced islands of color provide an interesting element of contrast absent in plain one-color flooring, yet avoid any sense of crowding or excessive regularity.

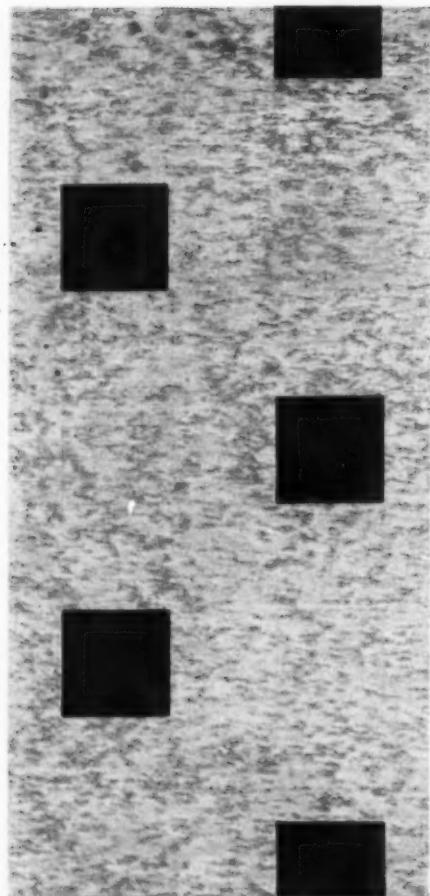
But it is not alone to residences that these new *Belflor Inset Tiles* are adapted. Their singular suitability for offices, stores, lobbies, club-rooms and similar interiors is self-evident.

Further descriptive data will be found on the back of this page.

(See next page)



NAIRN GOLD SEAL INLAIDS



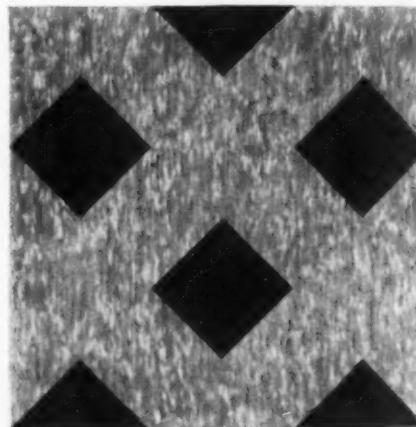
GOLD SEAL INLAID
Belflor $4\frac{1}{2}$ " Inset Tile.
Pattern No. 2171/2

The New Belflor Inset Tiles

Here appears another of the new wide-spaced *Belflor Inset Tile* patterns. The pleasing open effect of this type of design comes from setting the tiles considerably further apart than in other inset patterns. This arrangement is found only in Nairn **GOLD SEAL INLAIDS**.

Instead of the usual solid-color inset some of the patterns carry the distinctive *Belflor* mottled colorings in the tiles as well as in the field. Many different color combinations are offered in this new group of *Belflor* patterns. Lithographed reproductions of any of the patterns in actual size will be forwarded on request.

GOLD SEAL INLAID
Belflor Inset Tile.
Pattern No. 2168/1



Recent Advances in Nairn Quality

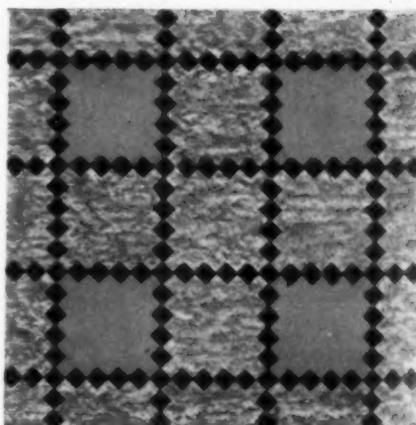
Architects who have seen the new inlaid linoleums that are being produced by Nairn have noted several outstanding features. The highly perfected wax finish is unsurpassed. It protects the goods against dirt and cement stains during installation, thus insuring a clean, handsome-looking finished job. Both flexibility and resilience—factors which make for easy laying—represent the highest standards of linoleum manufacture.

These qualities, plus the Gold Seal Guarantee of Satisfaction, permit architects to specify Nairn **GOLD SEAL INLAIDS** with entire confidence that they are serving their clients' best interests.

CONGOLEUM-NAIRN INC.

Philadelphia New York Boston Chicago Kansas City San Francisco
Atlanta Minneapolis Cleveland Dallas Pittsburgh New Orleans

(See preceding page)



GOLD SEAL INLAID
Belfor Pattern No. 7169/4

**NAIRN
GOLD SEAL INLAIDS**



Hotel Statler, Boston, Mass., 1300 rooms, 1300 baths.

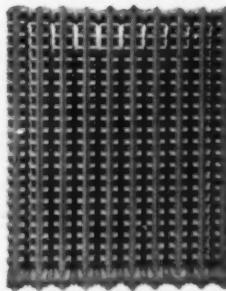
Architect, Geo. B. Post & Son; Consulting Engineers, Tenny & Ohmes; Electrical Engineer, Karr Parker; Heating Contractors, J. W. Danforth Co.; Blower Company, B. F. Sturtevant Co.

In the newest Statler Hotel— VENTO CAST IRON HEATERS

In the new Hotel Statler in Boston, Vento Cast Iron Heaters will furnish perfect warmth.

Vento was chosen for this installation because under every kind of test Vento Heaters proved so dependable. They are becoming more and more popular because they bring so many advantages and yet cost less. They are permanently tight—do not wear out, do not leak—and they withstand all the unusual conditions found in heating and ventilating, cooling, air washing, humidifying and drying processes.

We shall be glad to send you our "Engineers' Data Book on Vento," in which are tables showing the results of the most thorough tests ever applied to Blast Heaters.



A typical stack
of Vento Cast Iron
Heaters

AMERICAN RADIATOR COMPANY

Showrooms and sales offices: New York, Boston, Providence, New Haven, Newark, Philadelphia, Baltimore, Washington, Richmond, Buffalo, Pittsburgh, Cleveland, Detroit, Cincinnati, Atlanta, Chicago, Milwaukee, Indianapolis, St. Louis, St. Paul, Minneapolis, Omaha, Kansas City, Denver,

San Francisco, Los Angeles, Seattle, Toronto, London, Paris, Milan, Brussels, Berlin

Makers of IDEAL BOILERS and AMERICAN RADIATORS and other products for heating,
ventilating and refrigerating

Interlocking-

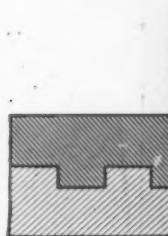
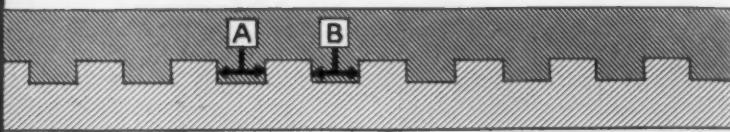
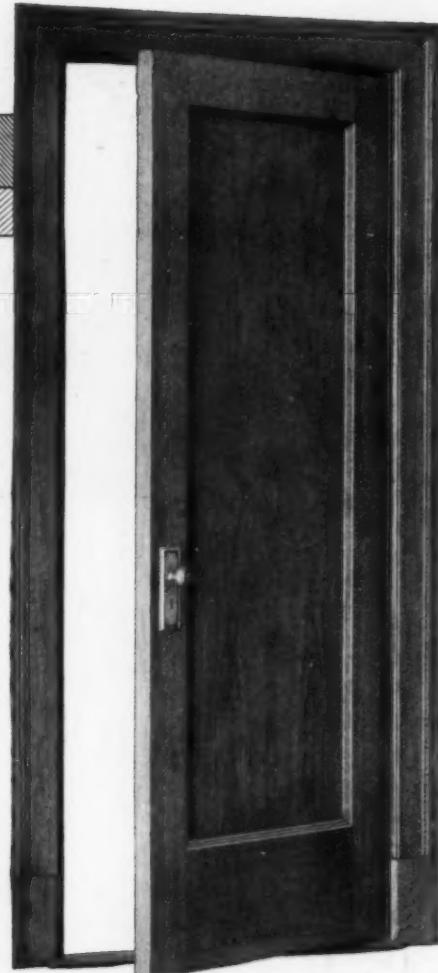


Diagram shows Compound Veneer interlocked to core, enlarged to twice its actual size. Compound veneers are $\frac{1}{8}$ " in thickness. Panels five-ply. Core, $\frac{1}{4}$ " laminated softwood.



Compound's Source of Strength

The veneers of Compound Doors are compounded to the core by tongue-and-groove construction, a unique union which has two distinct advantages over the ordinary face-to-face joint:

1. Gluing surface is doubled.
2. Resistance is also increased by the shearing pull made necessary on surfaces A and B, parallel to the strain that is tending to pull veneer and core apart.

This results in a very definite increase in COMPOUND'S strength over the usual method of applying veneer flat. What do you figure the exact increase to be? We'd like to have your answer.

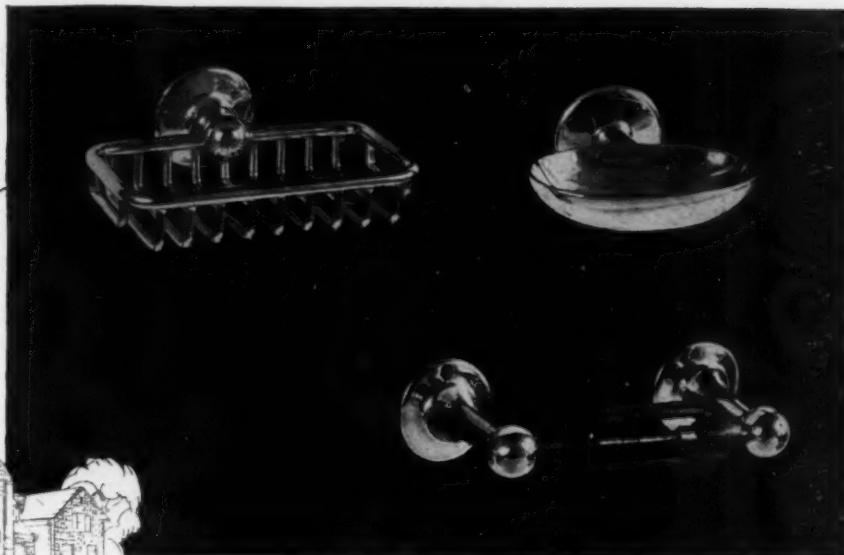
Send for more detailed information, and sample of Compound construction.

THE COMPOUND & PYRONO DOOR COMPANY
ST. JOSEPH, MICHIGAN

Compound
VENEERED DOORS

MADE BY AMERICA'S OLDEST VENEERED DOOR SPECIALISTS

The Elizabeth Town and Country Club, Elizabeth, New Jersey. Clifford C. Wendehack, Architect. Crodon-plated equipment by J. A. Hoegger, Inc.



FOR PERMANENCE

Architect and House Committee Agree on Crodon Finish

IN the new Elizabeth Town and Country Club CRODON has been specified as the finish for all of the exposed metal fixtures throughout the building.

By this means all maintenance charges for metal polishing as well as future assessments for the replacement of worn fixtures, have been eliminated. For CRODON will last as long as the building itself.

CRODON is a chromium electro-plate with a brilliant, mirror-like lustre. Used as the standard finish for many metal products of quality, its unusual features have brought it general recognition.

Even in salt atmosphere CRODON surfaces will never tarnish or peel.

CRODON prevents the formation of verdigris and resists steam, high temperatures, the majority of acids, and all alkalis. An occasional wiping with a cloth to remove grease or other foreign matter maintains the original lustre. No metal polishes are ever required.

Manufacturers of quality products carry CRODON-plated products in stock or can supply them by having them CRODON-plated in one of our plants.

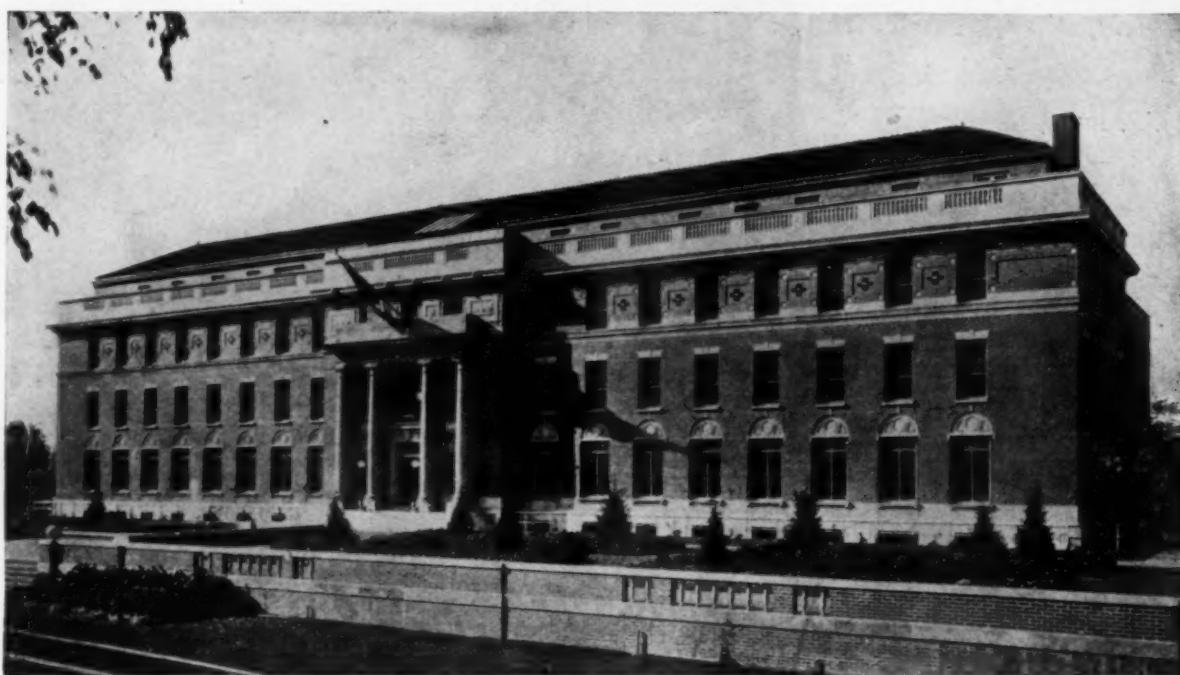
Upon request our Architects' Service Department will give any desired details or estimate the probable cost of CRODON for any building project. Write the Chromium Corporation

of America,
26 Broadway,
New York City.

Specify CRODON for:
Plumbing Fixtures, Bath-room Accessories, Flush Valves, Builders' Hardware, Door Plates, Door Knobs, Door Hinges, Electric Lighting Fixtures, Electric Fans, Switch Plates, Elevator Hardware, Hand Railings, Sprinkler Hydrants, Cuspidors, and Other Miscellaneous Exposed Metal Surfaces.

CRODON

*The Chrome Plate
Applied Only to Quality Products*



MASONIC SOLDIERS AND SAILORS MEMORIAL HOSPITAL, UTICA, N. Y.

H. P. Knowles, Architect

Build Everlasting Memorials of Beautiful Face Brick

HERE a living monument to Masonic War Veterans has been built of sturdy colorful Face Brick. As a result its stately dignity will be enhanced by the passing years.

Ever since the days of ancient Chaldea, Babylon and Egypt, through all the centuries, in every land, men have erected their revered and hallowed Memorials of hard-burned brick because of its eternal beauty.

Today, as ever, the enduring qualities of Face Brick make it exceptionally well-suited to the requirements of important Memorial Buildings.

"Architectural Details in Brickwork," a portfolio of many halftone plates showing excellent examples of fine brickwork. Sent postpaid to any architect making a request on his stationery.

"English Precedent in Modern Brickwork," a 100-page book, beautifully illustrated with halftones and measured drawings of Tudor and Georgian types and American adaptations; sent postpaid for two dollars.

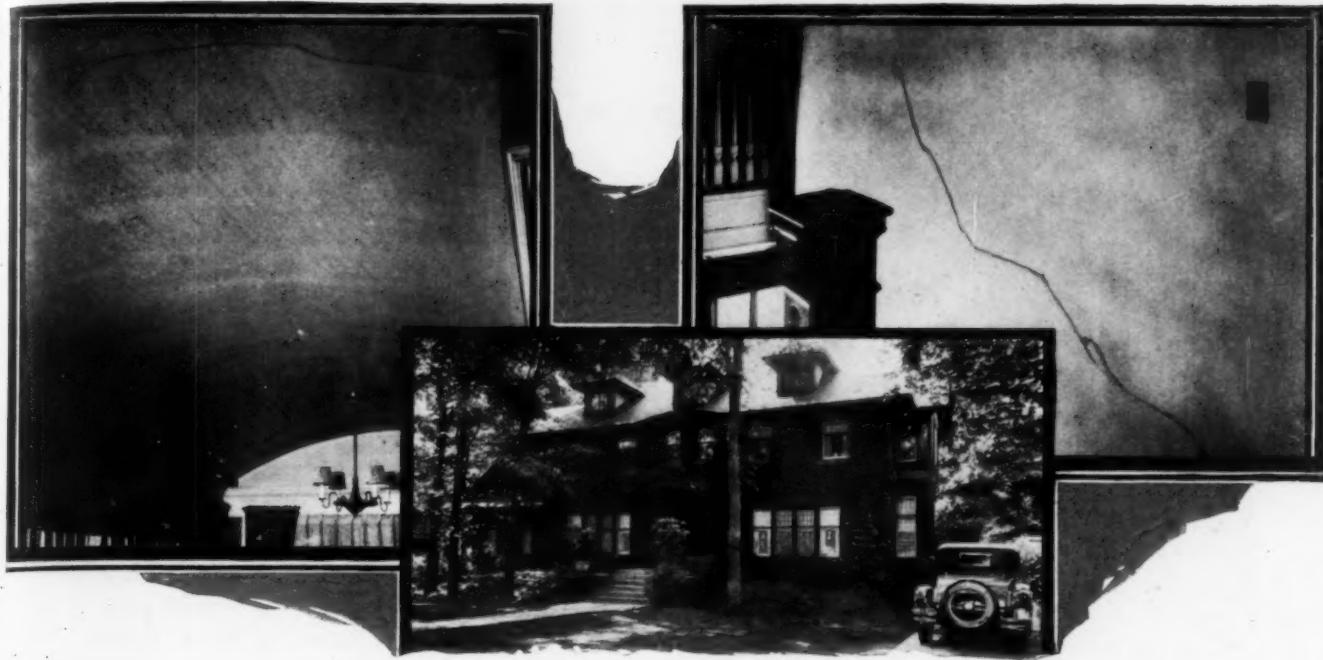
"Brickwork in Italy." 298 pages, an attractive and useful volume, especially for the architect, profusely illustrated with 69 line drawings, 300 halftones, and 20 colored plates with a map of modern and XII century Italy. Bound in linen, six dollars postpaid. Half morocco, seven dollars.

AMERICAN FACE BRICK ASSOCIATION



1751 Peoples Life Building
CHICAGO





Nothing To Do, But Redecorate Again!

A beautiful home in a beautiful setting. But look at the interior!

The sun room ceiling streaked and discolored! The stair well and other portions of the house, cracked—disfigured. Nor is it the plasterer's fault. He did his best with the materials which were specified.

The owner made one mistake. He insisted on a cheap lathing base which did not give satisfaction. In other respects the owner of this home is delighted. But he can never forget that omission. The marks of it are ever before his eyes.

That is the great trouble in cheapening the

plastering job, and the plastering base. The result is invariably dissatisfaction because the earmarks of that saving keep cropping up in the most noticeable places.

Isn't it worth a little extra effort to keep your clients from being just a trifle dissatisfied with the job? Explain the reason for a Better Plastering on metal lath specification to any client and you will be surprised what a ready ear he will turn to your remarks.

If you have not already received a copy of "Better Plastering in Modern Homes," we will be glad to send it to you. It will help you to put this point over to the "tightest" owner.

THE NATIONAL COUNCIL FOR BETTER PLASTERING
1305 Madison Square Bldg., Chicago, Ill.

BETTER PLASTERING ON METAL LATH





New Home of Knights of Columbus 51st St. and 8th Avenue, New York City

Contractors, McEntee & Sperling, Inc. 551 Full Range "Greendale Matts" used.

Edw. F. Fanning, Architect, New York.

THE New Home of the Knights of Columbus adds another building to the growing list of conspicuous structures in New York City and vicinity faced with beautiful "Greendales."

Whether allowed the rare opportunity of perfect expression amid perfect surroundings or working under the close restrictions of commercial limitations, many architects are finding that they can turn to "Greendales" with equal confidence.

"Greendales" owe their wide popularity to their universal adaptability, pleasing texture, wonderful color harmony and great durability. They are distributed throughout the United States and in Canada and Cuba.

for Literature and Color Plates address.

HOCKING VALLEY PRODUCTS COMPANY
General Offices: Logan, Ohio

Distributors

NEW YORK
O. W. Ketcham

PHILADELPHIA
O. W. Ketcham

CHICAGO
Wisconsin Lime & Cement Co.

CLEVELAND
Cleveland Builders Supply & Brick Co.

CINCINNATI
Cincinnati Builders Supply Co.

DETROIT
Frederic B. Stevens, Inc.

PITTSBURGH
Martin Brick Co.

ST. LOUIS
McEwing & Thomas Clay Products Co.

BOSTON
Parry Brick Co.

ATLANTA
B. Mifflin Hood Brick Co.

OMAHA
Sunderland Bros. Co.

WASHINGTON D. C.
O. W. Ketcham

And in all other principal cities

“Greendale”
FACE BRICK

for WALLS



Towering majestically above the streets of storied Louisville, this Inter-Southern Life Insurance Building is an achievement of which D. X. MURPHY & BROS., its architects, may well be proud.

Beaver American Gypsum Block throughout

This eighteen-story Louisville office building is one of hundreds of large structures where Beaver American Gypsum Block is giving excellent service.

Beaver American is the gypsum block that is recognized for its fire-proof, sound-deadening, structurally efficient qualities. And the new "Her-Born" process, now employed

in its manufacture, gives it uniformity of weight and dimension. Each block follows closely the specifications of the Underwriters' Laboratories and The American Society for Testing Materials.

For information on Beaver American Gypsum Block or other Beaver American Gypsum products, address our Dept. 2512.

THE BEAVER PRODUCTS CO., Inc., Buffalo, N. Y.

BEAVER
AMERICAN
PLASTER

RELIABLE

Uniformity of Materials—Supervised Installation—Financial Responsibility

Physical and chemical tests of raw materials assure uniformity. Thorough supervision and strict observance of engineering principles assure successful installation.

Satisfactory results are guaranteed by the resources of an organization with sixty years of business experience.

MOULDING'S FLOORS

T-M-B Flooring

A permanent quiet flooring with a durable, rubber-like texture. It is applied over cement or wood, forming a seamless, sanitary surface easy to clean. It gives distinctive beauty at a cost often less than for other floorings. Made in red, brown, green and black. Used in all kinds of buildings.

T-M-B Acid Resisting Flooring

A special compound of T-M-B Flooring where protection is desired from acids, alkalies and water. In laboratories of schools, colleges and industrial plants T-M-B Acid Resisting Flooring has proved its ability to give long service under severely adverse conditions.

T-M-B Electrical Insulating Flooring

Specially compounded to serve as a flooring that guarantees perfect electrical insulation. It is also waterproof and seamless. Extensively used by public utilities and in electrical departments of schools and colleges.

Dance Floor

Applied over any cement or wood surface, resulting in a smooth floor easily waxed to the desired slipperiness. Available in several colors. Unaffected by rain, snow, heat or cold. Used as outdoor dance floors in many leading amusement parks throughout the country.

Outdoor Floor

Composed of imperishable minerals that successfully defy frost, heat, rain and snow. Ideal for roof gardens, porches, roofs used for recreation, etc.

Moulstone

A permanent fire-proof floor for stores, lobbies, reception-rooms, toilets and offices. An ideal flooring for making new floors over old ones. In variety of colors, permitting border, panel and inlay design. Can be scored to resemble tile. Applied over cement, wood sub-floors or old wood floors.

Moulstyle

A resilient tile floor of unusually durable texture. Green, red and brown tiles afford almost any combination desired.

THOS. MOULDING BRICK COMPANY

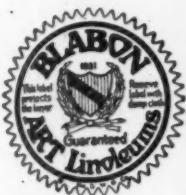
133 W. Washington Street
Chicago, Illinois

Grand Central Terminal Bldg.
New York, N. Y.

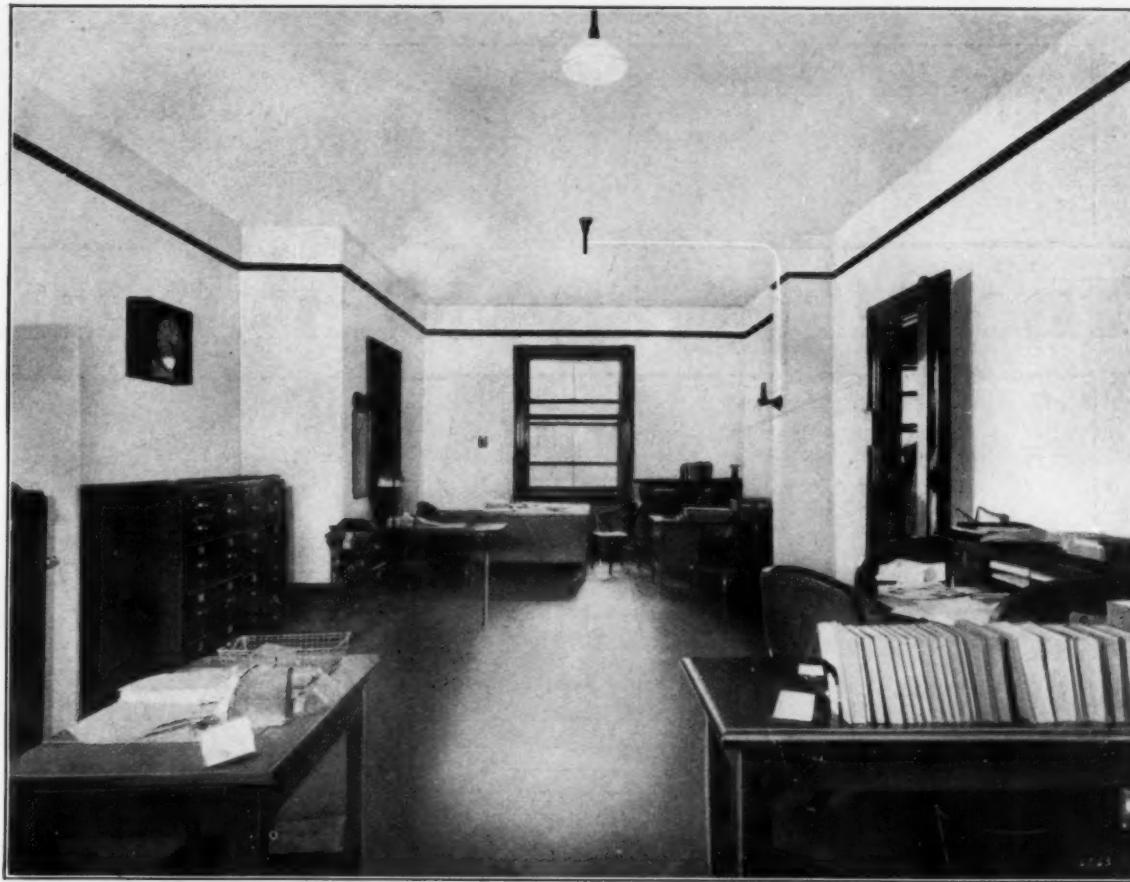
Moulding's **TMB** **Flooring**

MADE, LAID AND GUARANTEED BY US—60 YEARS OF RESPONSIBILITY

A Blabon floor of Plain Linoleum was chosen for this room in the State Capitol of Minnesota.



Look for this label on the face of all Blabon's Linoleum.



Specify these beautiful wear-resisting floors!

Consider the smooth, sanitary Blabon floor of Plain Linoleum in this room of the State Capitol of Minnesota. Its waxed and polished surface is pleasing to the eye. Its resiliency makes it comfortable to walk upon; it deadens the sound of moving feet and chairs. It is easy to keep clean, and economical to maintain. In fact, this Blabon floor is ideal for such a room in this substantial, imposing building.

Particularly so, because it is cemented down over builders' deadening felt, which makes the seams watertight and practically invisible. Moreover, it is adapted to fireproof construction.

These are reasons architects are specifying Blabon floors for public buildings, skyscrapers, libraries, churches, homes and wherever they want this combination of qualities not found in any other floor, or desire to achieve unusual decorative effects.

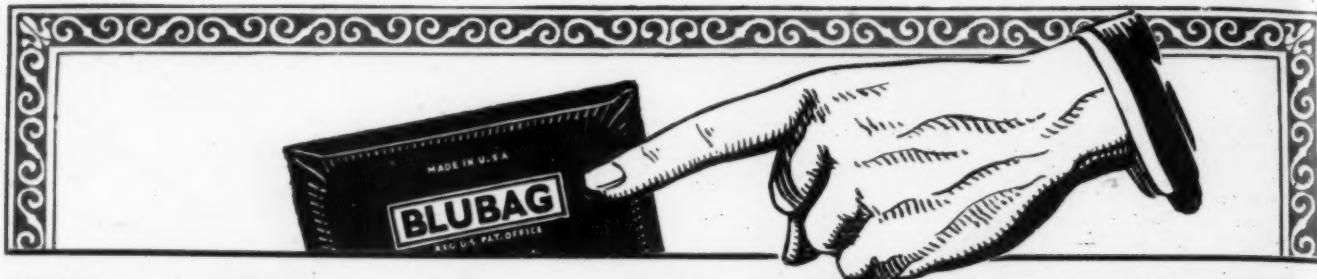
Our Advisory Bureau of Interior Decoration will gladly cooperate with you without charge.

We will mail, upon request of architects, our reprint from Sweet's Architectural Catalog, box of quality samples, and our new 1927 Pocket Size Pattern Book.

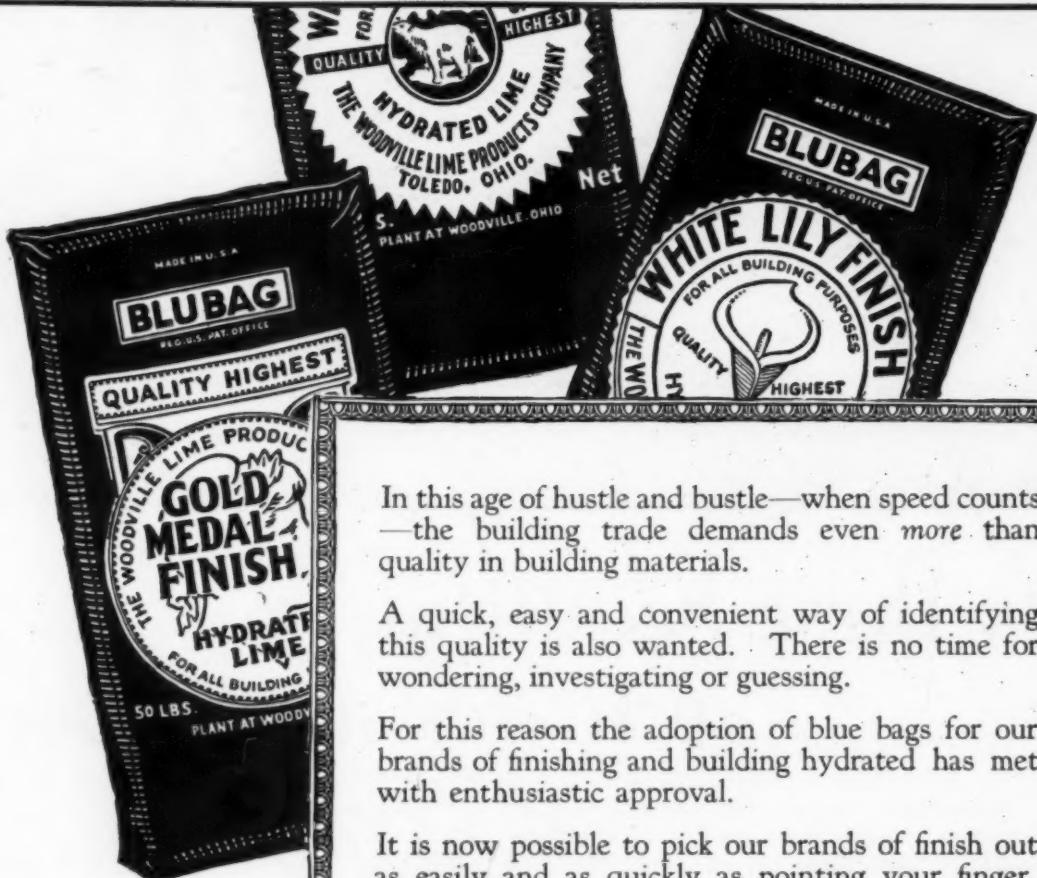
The George W. Blabon Company, Nicetown, Philadelphia
Established 75 years

Hazel H. Adler, author of books on interior decoration, gives valuable suggestions for harmonizing furniture and draperies with walls and floors, in our 36-page book, "Planning the Color Schemes for Your Home," illustrated in full color. Sent anywhere in the United States upon receipt of 20 cents.

BLABON'S Linoleum



The Blue Bag Means Quality-



Quality from
Stone to Finish

In this age of hustle and bustle—when speed counts—the building trade demands even *more* than quality in building materials.

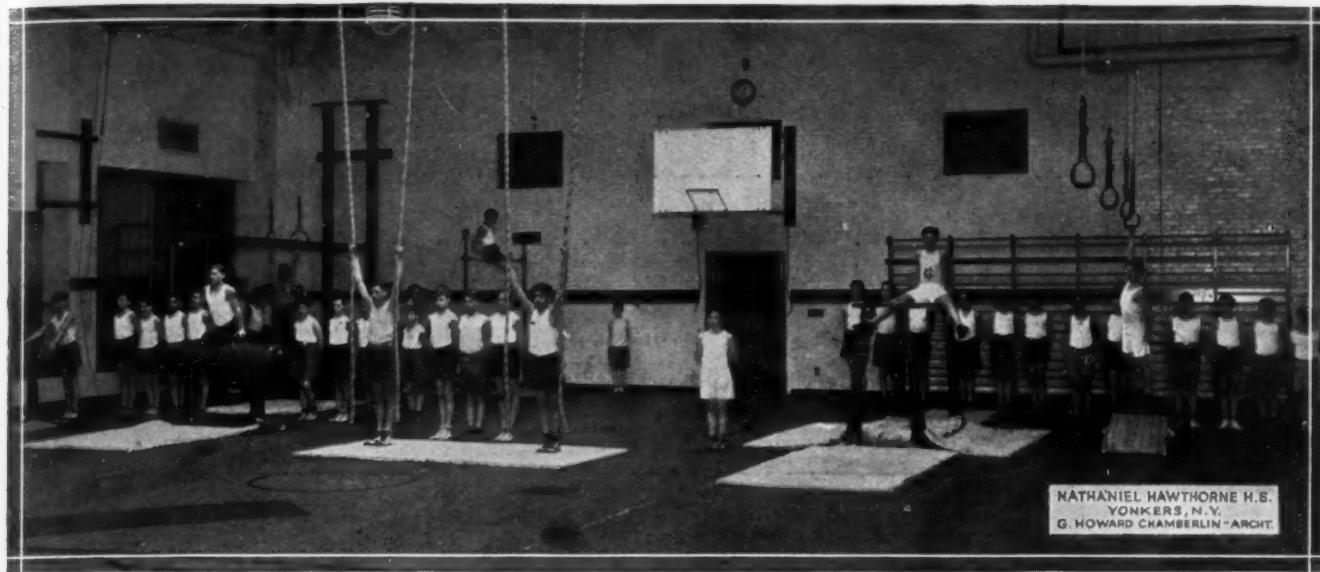
A quick, easy and convenient way of identifying this quality is also wanted. There is no time for wondering, investigating or guessing.

For this reason the adoption of blue bags for our brands of finishing and building hydrated has met with enthusiastic approval.

It is now possible to pick our brands of finish out as easily and as quickly as pointing your finger. The distinctive blue bag positively identifies our brands. No mixups, mistakes or confusion. The blue bag means quality when its filled with Finishing Hydrated Lime.

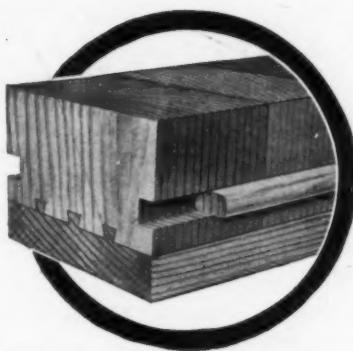
The Woodville Lime Products Co.
Toledo, Ohio

**WHITE ENAMEL, GOLD MEDAL
AND WHITE LILY
FINISHING & HYDRATED LIME**



The gymnasiums and shops of the Roosevelt and Hawthorne Schools and the gymnasium of the Franklin School, all at Yonkers, N. Y., have been floored with BLOXONEND. G. Howard Chamberlin, Architect.

A Wood Flooring that cannot splinter or sliver



BLOXONEND comes in 8 ft. lengths with the Southern Pine blocks dovetailed endwise onto baseboards. Laid directly over the old or new concrete or wood floors. Sleepers unnecessary.

A butcher's block cannot splinter—neither can a BLOXONEND floor. In one respect both are identical—the tough end grain of the wood forms the wearing surface.

BLOXONEND is the only wood flooring adaptable to gymnasium use that is splinter and sliver proof. This advantage alone has gained for BLOXONEND the approval of many architects and physical directors who have observed the seriousness of those injuries to players caused by splintered-slivered floors.

BLOXONEND is a resilient floor. It is bright, clean and attractive, affords a firm, safe foothold, stays smooth and is far more durable than the ordinary types of wood flooring. Prominent architects specify it extensively for gymnasiums, shops and school corridors.

Write nearest office for Architectural Specifications

CARTER BLOXONEND FLOORING COMPANY

KANSAS CITY, MISSOURI

Branch Offices in Principal Cities—See Sweet's

BLOXONEND
Lays Smooth **FLOORING** *Stays Smooth*



A well known architect has this to say about Coldak Electric Refrigeration . . .

GEORGE NELSON JACOBS
ARCHITECT & ENGINEER
8 BOSWORTH STREET, BOSTON, MASS.

May 24, 1926.

Coldak Corp. of N. E.
889 Boylston Street,
Boston, Mass.

Gentlemen:

After investigating the various refrigerating systems for apartment houses, I decided on Coldak as being the most satisfactory for Lowell Manor. Many of the suites are occupied by the students and these suites are vacant during the summer.

With Coldak, it is possible to shut off the unused refrigerators and shift the load to one machine, cutting down materially on the operating expense.

No attention is required other than oiling the motor once in three or four months. The system has been in operation for several months and it has proven most satisfactory.

I cannot speak too highly of Coldak and I should be glad to answer any inquiry.

Yours truly,
George Nelson Jacobs

Architect for Lowell Manor
Prescott Street,
Cambridge, Mass.



“Shut off the unoccupied apartments ... shift the load to one machine”

**Coldak is the only system
of Electric Refrigeration
that has this advantage**

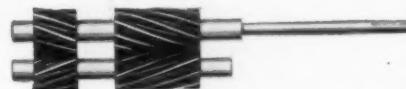
IN the Lowell Manor there are 80 apartments. All of them get perfect electric refrigeration from 4 Coldak machines, installed as a central plant in the basement. The machines are connected in multiple. When the load permits, three machines can be shut off and *one* machine does all the work. This is made possible by the Coldak “open circulating” system. It is an exclusive Coldak feature. No other system of electric refrigeration has it!

Coldak supplies all the apartments with the same automatic electric refrigeration they would get with a separate machine in each apartment. But it has this great advantage—Coldak does the job from *one central plant*. There is no machinery, no servicing in the living quarters. One Coldak machine supplies as many as 25 apartments. Fifty apartments need only two machines, 75 apartments 3 machines—and thus the system can be expanded indefinitely.

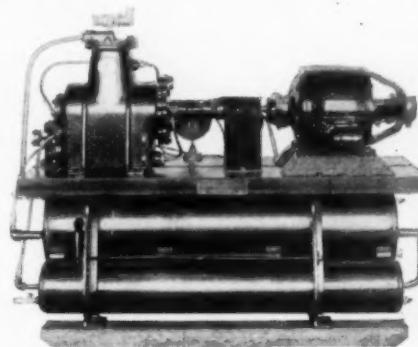
Coldak is not a brine circulating system. It requires no large, insulated pipe lines. The Coldak feeder pipes are only $\frac{3}{8}$ inch! They require no insulation whatever. And Coldak needs no watchman or engineer to operate it. Consider the saving!

Coldak simplifies the whole problem of apartment house refrigeration. It does the work of the most complicated central plant system, yet it has all the operating advantages of a small household machine—and needs no more attention. No other system is like it!

More complete information about Coldak has been put in booklet form. Mail the coupon and get a copy for your files.



Coldak is the most rugged electric refrigerating machine made. Simple too! It has no belts, pulleys, pistons, crankshafts, reduction gears or reciprocating parts—just two sets of rotary gears do the job.



COLDAK CORPORATION

Eight West Forty-fifth Street, New York City

Coldak under J. G. White Management

The Coldak Corporation is managed by the J. G. White Management Corporation, whose services were secured after their own investigation had proved the superiority of Coldak.

COLDAK CORPORATION,
8 West 40th Street, New York City

Please send me additional information about the Coldak System of electric refrigeration for apartment houses.

Name.....

Street.....

City..... State.....

© 1926, The Coldak Corp.

A.F. 12-26

CAEN STONE CEMENT INTERIORS

For the new building or the
remodeling job

DIGNITY and beauty are realized by the use of Caen Stone Cement. You need never fear a "dull brown plaster" appearance. Caen Stone Interiors have all the charm of the natural Imported Caen Stone.

Caen Stone Cement is applied to wall surfaces like plaster; plain moldings are run with templets; details are cast in glue molds.

Send for AIA Specification Book

PALMER LIME & CEMENT COMPANY
103 Park Avenue
NEW YORK, N. Y.

18 SIGNS AND INSCRIPTIONS IN ARCHITECTURE

ARCHITECTURAL DETAIL with SIGN RENAISSANCE FLEXLUME CORPORATION Buffalo, N.Y.

RENA

**Seven Period Letter-Designs
in This Free File Book**

To the architect who must provide inscriptions and signs for the buildings he plans and who wants them in harmony with period-architecture, this book is a real help.

It shows photoprints of architectural details, together with plates of authentic lettering for each of seven leading periods—Greek, Roman, Romanesque, Gothic, Byzantine, Renaissance and Georgian.

Then it points out how the architect may plan for complete harmony of Flexlume Electric Signs with the architecture of his design, thus preventing the marring of his buildings with the indiscriminate product of the ordinary sign shop. The Flexlume glass letters can be moulded to conform with the architectural style of lettering desired—they are entirely subject to the architect's pencil.

Have your secretary write today for your copy of "Signs and Inscriptions in Architecture." And communicate with our Department of Design for intelligent co-operation whenever you have a sign problem to solve.

FLEXLUME CORPORATION
1420 Military Road Buffalo, N.Y.
Flexlume Offices All Principal Cities

FLEXLUME
CORPORATION



GUARDIAN SAVINGS AND TRUST COMPANY, CLEVELAND, OHIO
WALKER & WEEKS, ARCHITECTS

LARGE SCALE INTERIORS

The warm glow which greets one who enters this bank is due to the use of texture finished Pink Georgia Marble. This is a good example of the pleasing results obtained with Georgia Marble for spacious interiors. The Georgia Marble Company, Tate, Georgia; New York, 1328 Broadway; Atlanta, 511 Bona Allen Bldg.; Chicago, 456 Monadnock Bldg.

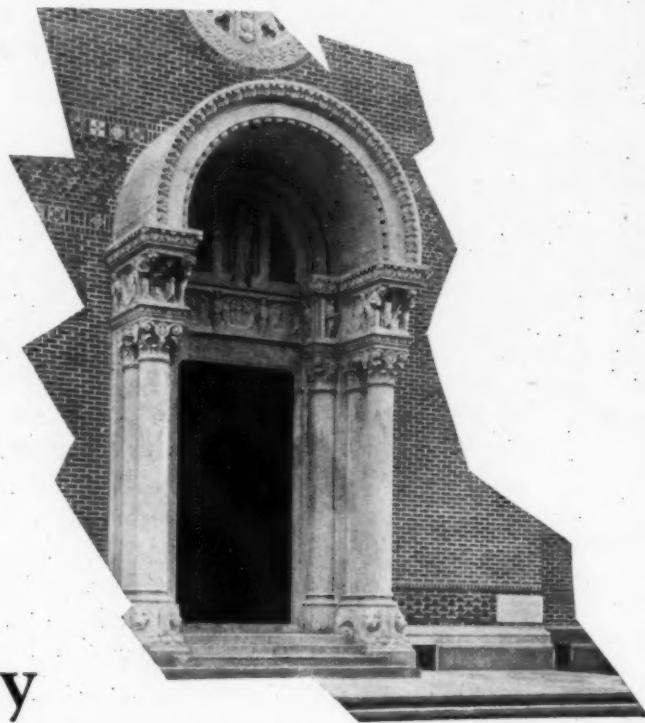
GEORGIA MARBLE

Just another weary, wasted footstep—a waste of time and energy! Only one of thousands left by tired women trudging needlessly about in offices and schools. Needless walking, because Western Electric Inter-Phones would halt that waste of time and footsteps. Prove it for yourself. Look into the places where the architect's wise advice on Inter-Phones has been adopted—you'll see people talking to each other over the Inter-Phone—you'll see no wasted footsteps. There are lots of places like that; lots of places where people appreciate the wisdom of the architect who suggested the Inter-Phones that conserve their time. And there are many architects who value highly the very real assistance given them by the Inter-Phone specialist from Graybar, distributor of Western Electric Inter-Phones.

We wasted footsteps are well aware that the most effective means of banishing us is Western Electric Inter-Phones, with their name for leadership in electrical communication.

Clear DRIWAL for Cut Stone Application

It would be next to blasphemy to allow staining and discoloration to mar the beauty of this stone doorway. Clear DRIWAL was used—and will preserve the original beauty, color and texture of the stone work for years.



Clean, natural beauty of stone exteriors can now be *preserved*

CONSPICUOUS staining and discoloration of an otherwise beautiful stone building is by no means an enjoyable spectacle for either the architect or the owner.

The ugly, brown stains, caused by cement mortar and back-up materials; and the discoloration of the surface caused by exposure to smoke, soot, grime and the elements: these are problems which the architect must consider if he would be mindful of the *future* beauty of the stone exterior.

Clear DRIWAL provides the practical solution to both these problems and its success has been proved, over a period of years, on many notable structures.

Clear DRIWAL eliminates the absorption of water—and without the aid of moisture,

those unsightly brown stains cannot come to the surface.

Accumulated dirt, soot and grime are washed *off* instead of *into* the surface by subsequent rains. As a consequence, the building remains cleaner, and free from water streaks and surface discoloration.

An important point to consider is that Clear DRIWAL in no way changes the natural appearance, color or texture of the surface to which it is applied. It penetrates and becomes a part of the stone surface—but is absolutely invisible after drying.

DRIWAL is also furnished in White and Colors for application on Stucco, Concrete or Brick surfaces—for dampproofing, decorating, stainproofing, and to hide stains which cannot be removed.

Write us for specifications and further information. Use the coupon below for convenience.

Kindly send DRIWAL specifications, file size, to:

Name.....

Street.....

City.....

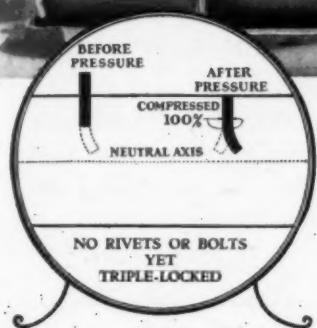
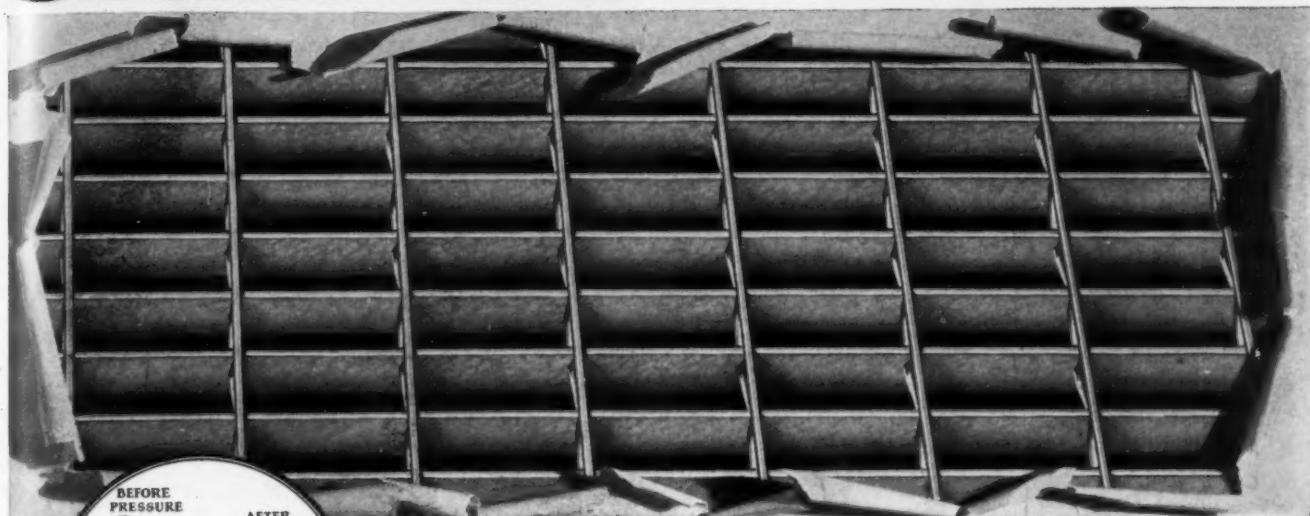
The
BILLINGS-CHAPIN CO.

Established 1879

Home Office and Factories:

EAST 40TH AND N. Y. C. R. R. CLEVELAND, OHIO
Branches
NEW YORK, 438 PEARL ST. BOSTON, 146 HIGH ST.

GRATING AND TREAD



What a difference three locks make! First, there is a right-twist lock in every other bar. Second, there is a left-twist lock in alternate bars. Third, there is the 1600-ton hydraulic pressure-lock, which is effected by pressing the cross bars into the two twist-locks.

Neither time nor wear can open the three locks of TRI-LOK.

*Send for
Bulletin
containing
TRI-LOK'S
complete story*

TRI-LOK the Last Step in Grating and Tread Evolution

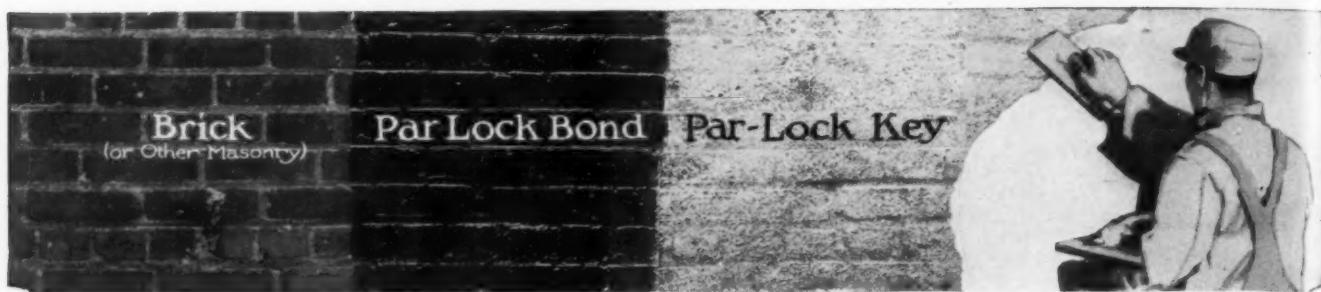
For many years, Inventors and Designers have tried to give grating and tread the qualities TRI-LOK alone possesses! Here they are:

- Greatest Strength
- Least Deflection
- Lightest Dead Load
- Maximum Light Beneath
- Freest Ventilation
- Easiest Painting
- Most Complete Galvanizing
- Quickest Service
- Lowest Cost

To Engineers, these FACTS speak volumes!

THE TRI-LOK COMPANY, 5517 Butler St., PITTSBURGH, PA.

TRI-LOK
"KING OF THE WALK"
TRADE MARK



President Hotel Has *Par-Lock* Insulation

AMONG the fine hostelleries of Atlantic City's popular Board Walk, the President Hotel is conspicuous for the structural qualities that impart lasting comfort and luxury.

Wall leakage of moisture, the bane of many buildings similarly exposed to the driving storms of the seaboard, is entirely avoided in the President Hotel by the application of Par-Lock to the

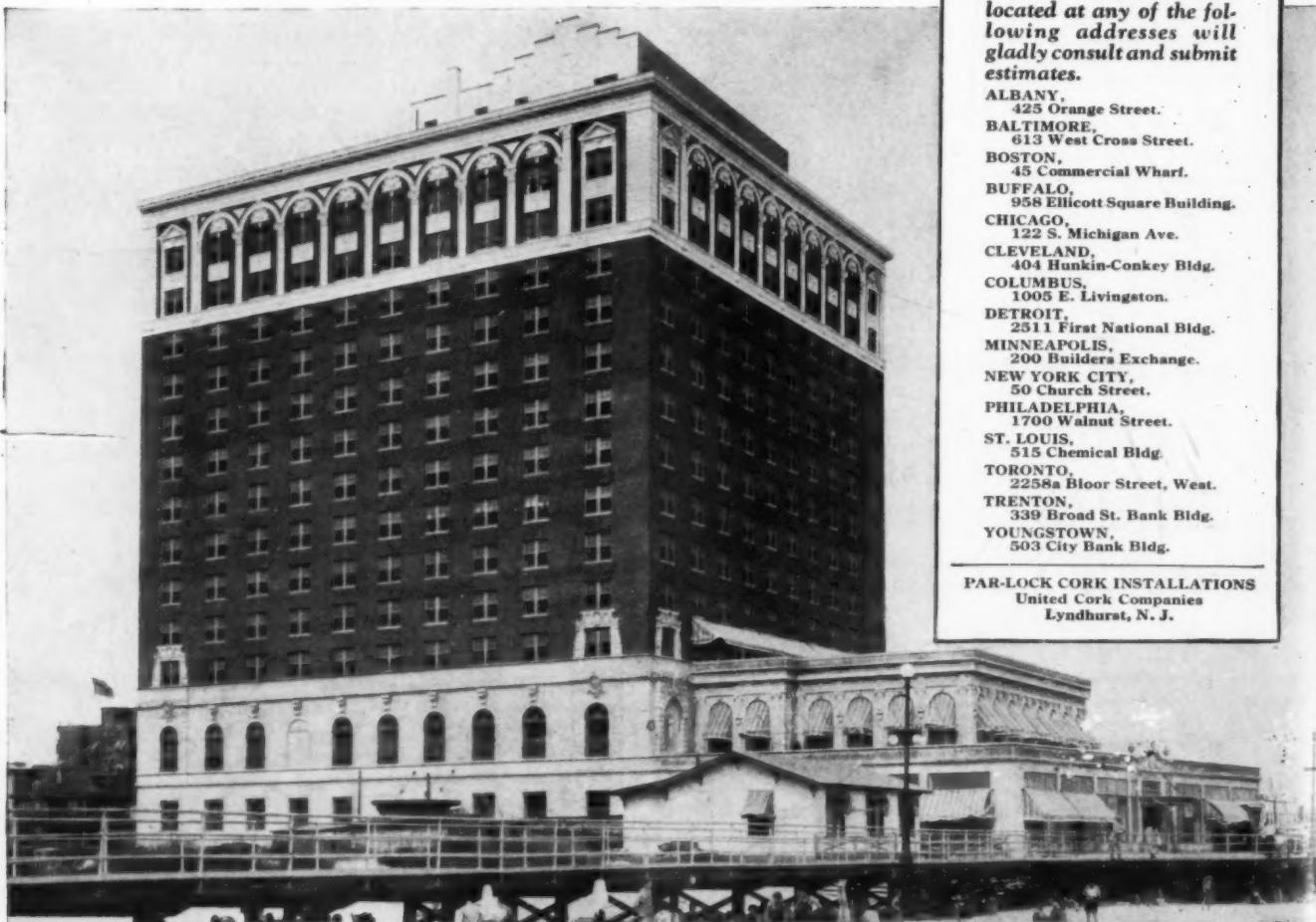
interior of its 13 inch masonry walls.

Par-Lock means complete damp-proofing, plus an effective plaster key. In preventing condensation, Par-Lock supplants furring and thus saves money, space and dead load.

For expert, responsible, Par-Lock service, as well as preliminary counsel and estimates, rely on the nearest Par-Lock Applier or write to

THE VORTEX MANUFACTURING COMPANY
1984 West 77th Street

The President Hotel, Atlantic City, N. J., Louis I. Brooks of New York, Architect.
Wm. G. Souders, Inc., Owner and General Contractor. G. A. McGimpsey, Plastering Contractor.
Par-Lock applied by The Par-Lock Appliers of New Jersey.



PAR-LOCK APPLIERS

located at any of the following addresses will gladly consult and submit estimates.

ALBANY, 425 Orange Street.
BALTIMORE, 613 West Cross Street.
BOSTON, 45 Commercial Wharf.
BUFFALO, 958 Ellicott Square Building.
CHICAGO, 122 S. Michigan Ave.
CLEVELAND, 404 Hunkin-Conkey Bldg.
COLUMBUS, 1005 E. Livingston.
DETROIT, 2511 First National Bldg.
MINNEAPOLIS, 200 Builders Exchange.
NEW YORK CITY, 50 Church Street.
PHILADELPHIA, 1700 Walnut Street.
ST. LOUIS, 515 Chemical Bldg.
TORONTO, 2258 Bloor Street, West.
TRENTON, 339 Broad St. Bank Bldg.
YOUNGSTOWN, 503 City Bank Bldg.

PAR-LOCK CORK INSTALLATIONS
United Cork Companies
Lyndhurst, N. J.



BRIXMENT for Winter Masonry

THE same qualities that insure the permanence of BRIXMENT mortar also reduce the possibility of freezing to a minimum and enable the architect to continue his building program throughout the winter without interruption Even when the temperature is below freezing, the set of BRIXMENT mortar can be easily timed, without the admixture of other ingredients, to take place without freezing and without impairing the strength of the joint There is no free lime in BRIXMENT to absorb excessive moisture and thus the cause of swelling, scaling and popping is removed.

Send for Architect's Handbook

It tells how the architect can now specify the strength of the mortar joint just as he specifies the strength of his steel work—with the same assurance that his specifications will be adhered to For BRIXMENT mortar is naturally smooth and easy-working, requires no lime and removes the temptation to weaken the mix for the sake of obtaining plasticity These advantages and complete technical data, tests and specifications are contained in our handbook gladly sent you on request. LOUISVILLE CEMENT CO., Incorporated, Louisville, Ky.



Eastern Mill Now Shipping

The new BRIXMENT mill at Brixment, N. Y. (formerly Akron Falls) now puts BRIXMENT within the reach of every project in the east. . . . BRIXMENT specified by such architects as Graham, Anderson, Probst & White; Ludlow & Peabody; Schultz & Weaver, etc. . . . Used in such buildings as Biltmore Hotel, Miami; Senior-Junior High School, Baltimore; New York Times Annex, New York; Cincinnati Enquirer Building, Cincinnati; Fisher Body Ohio Co. Building, Cleveland; Parke Apartments, Buffalo; U.S. Mail Terminal, Chicago, etc.

Cement Manufacturers for Nearly a Century

BRIXMENT for Perfect Mortar

Federal Roofs

link light weight

with **High Strength**

WHEN you roof with Federal Cement Tile, you effect substantial savings on the steel super-structure or frame.

That is due to Federal Tile's light weight.

Because these pre-cast slabs are quality controlled, accurately reinforced with wire mesh, and thoroughly cured under uniform temperature conditions, they link this light weight with high strength.

And you are sure of the same permanent freedom from repairs that Federal Roofs have been providing on industrial and public buildings of every type for a quarter of a century.

Made of concrete, these roofs are fire-proof and rust-proof. They are also freeze-proof and sun-proof. They are unaffected by gases, by smoke, or by acid fumes.

Let us tell you the full story of Federal Roofs, and of the engineering and erection service that goes with them. Your request will be given prompt, courteous attention without placing you under any obligation.

Federal Interlocking Tile for pitched surfaces have a non-fugitive, red color and require no painting. When used with Federal Glass Insert Tile for top-lighting an ideal "daylight roof" is obtained. Other styles include Flat and Channel Slabs for roof decks

Made, Laid and Guaranteed by the
FEDERAL CEMENT TILE COMPANY
608 South Dearborn Street, Chicago, Illinois

FEDERAL CEMENT TILE ROOFS

"For Every Type of Permanent Building"

keep heat
where it belongs

INDOORS
in cold weather

OUTDOORS
in hot weather

HEAT-LOSS in winter is one thing—heat-invasion in summer is quite another. Modern INSULATION *must keep heat where it belongs*—outdoors in hot weather and indoors in cold weather. MASONITE does both. It is all-wood and therefore superior to substitutes in all essentials.

The Superiority of Manufactured All-Wood Lumber Architects appreciate the many advantages of all-wood Structural Insulation and unhesitatingly recommend MASONITE. They have seen reports of unbiased official tests which prove that all-wood insulation possesses greater heat-resistance than substitutes.

Contractors understand the permanence of wood as a building material and recommend MASONITE to all who build for Permanent Comfort and Value. They find it profitable to work with a material that handles as easily and with as little waste as this remarkable new product.

Structural Insulation with Many Uses

MASONITE replaces other building materials, effects building economies, adds to the strength and permanence of new and old dwellings, stores, offices, churches, theatres, factories and schools. Hence "Structural Insulation," which completely describes the product and its uses.

MASONITE is recommended for sheathing, plaster base, interior finish, and under roofing—as insulation wherever used—and as sound-deadener in floors and ceilings.

Send for Sample and Literature You can obtain MASONITE through leading lumber dealers everywhere. Send for a sample and make your own comparisons.

Read the MASONITE literature which tells the whole story—how the new product is made, how used in modern building operations. Write today for the sample and the story.

MASON FIBRE COMPANY
Dept. 612 111 W. Washington St.
CHICAGO, ILL.

Masonite
MANUFACTURED LUMBER FOR
STRUCTURAL INSULATION

ACID-ALKALI-AND-FLAME-RESISTANT NON-ABSORBENT NON-CONDUCTING

"Safety Plus" Stair Treads



STAIR treads and landings of Alberene Stone have a smooth, but "toothed," surface that neither slips nor grips and gives an equally secure footing wet or dry.

In case of fire, they stand the most extreme heat without fracture, splitting or chipping. Their light gray color gives them a "high visibility."

They wear smoothly, evenly, and far more slowly than other natural stone or composition treads.

Ask us for the Catalog of Alberene Stone for Architectural Purposes.

ALBERENE STONE COMPANY
153 WEST 23rd STREET, NEW YORK

Baltimore Boston Buffalo Chicago Cleveland Newark
Philadelphia Pittsburgh Richmond St. Louis

ALBERENE STONE

QUARRIED FOR OVER 40 YEARS
THE INDESTRUCTIBLE MATERIAL FOR LABORATORY USE
STANDARD ALSO FOR TOILET, URINAL AND SHOWER PARTITIONS, STAIR TREADS, ELECTRICAL CONSTRUCTION

OTIS

FOR NEARLY THREE QUARTERS OF A CENTURY

THE WORLD'S WORD
FOR
ELEVATOR SAFETY

OTIS ELEVATOR COMPANY
OFFICES IN ALL PRINCIPAL CITIES OF THE WORLD



Architects!

The Clinton Metallic Paint Company offers its technical services to the architect to assist him in expressing his conceptions of color, in mortar and in stucco.

Clinton Metallic Paint Co.
412 CLINTON ROAD
CLINTON, N. Y.

Clinton Mortar Colors



Firesafety at no more cost

Firesafety is surer, steel costs are lower and roof framing is simpler, when the roof deck is of Pyrobar Gypsum Roof Tile.

These smooth white bars of gypsum rock, pre-cast to standard sizes, may be sawed readily, and since they are lighter, they require less steel. *And they will not burn nor transmit fire.*

The noticeably mounting preference for Pyrobar roof decks, among leading architects and builders, hinges quite as much on the facility with which they may be used, and their relatively low cost, as upon their known, positive firesafety.

The file-facts are interesting and comprehensive. Have the coupon below filled out and mailed, and add them to your data.

UNITED STATES GYPSUM COMPANY
General Offices
Dept. R, 205 West Monroe Street, Chicago, Illinois

Reg. U. S. Pat. Off.

PYROBAR ROOF TILE

Made by the United States Gypsum Company

Notre Dame Institute, Baltimore, Maryland
Architect: A. K. Kaiser, Baltimore, Maryland
15,000 sq. ft. Pyrobar Roof Tile used



MAIL THIS NOW

UNITED STATES GYPSUM COMPANY

Dept. R, 205 W. Monroe Street, Chicago, Ill.

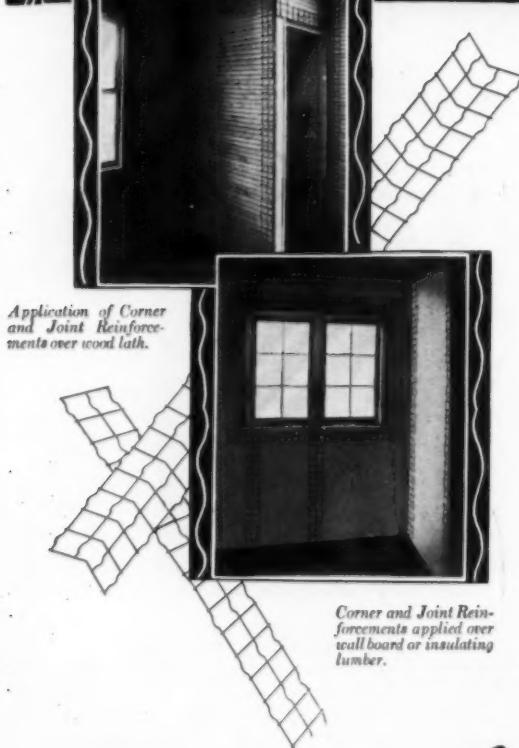
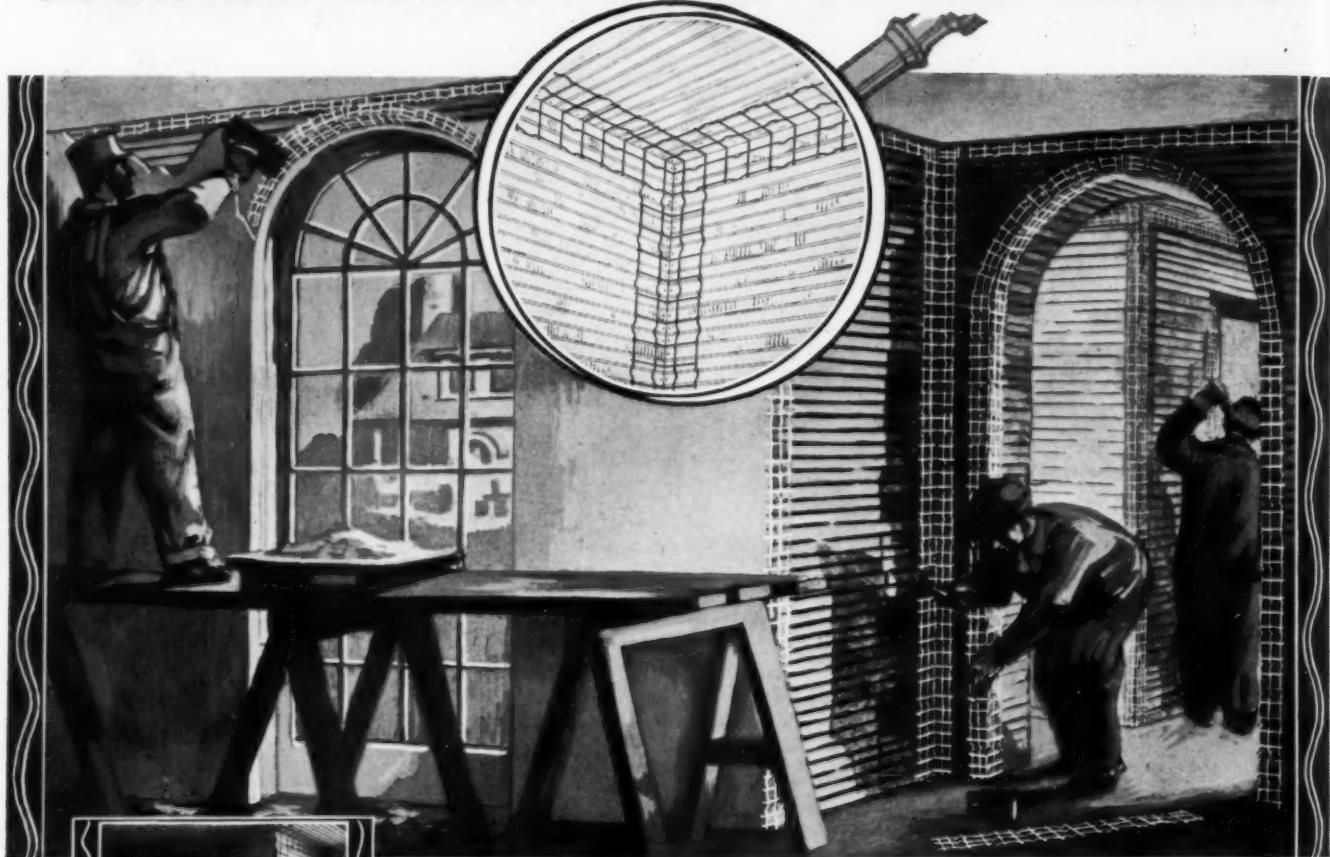
Please forward your special information on Pyrobar Roof Tile.

Name

Firm

Address

Prevent Corner and Joint Cracks with NATIONAL CORNER & JOINT REINFORCEMENTS



Application of Corner and Joint Reinforcements over wood lath.

Corner and Joint Reinforcements applied over wall board or insulating lumber.

National Steel Fabric Corner and Joint Reinforcements are a network or "fabric" of heavy, galvanized (non-rusting) steel wires, electrically welded on 2 inch centers, embodying an automatic furring device (crimp). Each leg of each angle of Corner Reinforcement is 3 inches wide. Joint Reinforcement flat strips are 4 inches wide. Both come in 50 inch lengths compactly crated, 120 pieces to the bundle.

NATIONAL Steel Fabric Corner and Joint Reinforcements, when plastering over wood lath, insulating lumber, or wall board, prevent corner and joint cracks and assure better construction.

They strengthen the framework as well as the plaster, automatically insuring the application of a sufficient thickness of plaster.

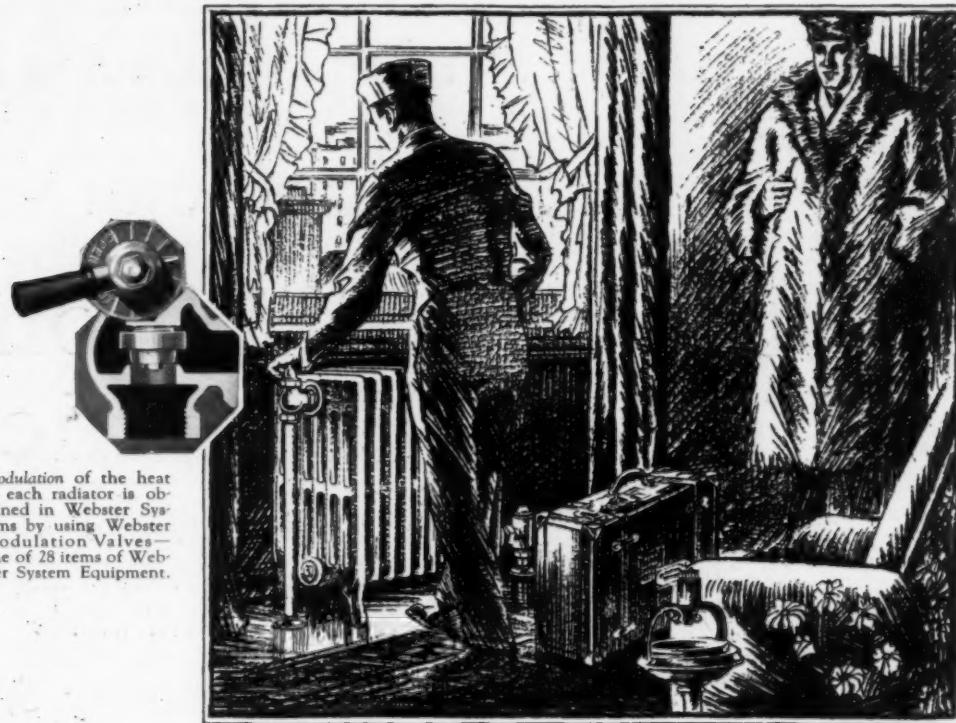
The conveniently handled 50-inch lengths of Corner and Joint Reinforcements are quickly and easily nailed in all angles, around all frames, and across all butted joints. The wire fabric becomes embedded in the plaster.

Steel Fabric Corner and Joint Reinforcements cost only about \$15 for the average house, less than the cost of repairing one break in plaster due to lack of reinforcement.

That's why Architects are specifying Corner and Joint Reinforcements on all wood lath or other non-reinforced base jobs.

Write for Descriptive Literature

NATIONAL STEEL FABRIC
NATIONAL STEEL FABRIC CO., 710 UNION TRUST BLDG., PITTSBURGH, PA.
WORLD'S LARGEST MANUFACTURERS OF WELDED STEEL FABRIC



Modulation of the heat in each radiator is obtained in Webster Systems by using Webster Modulation Valves—one of 28 items of Webster System Equipment.

The friendly warmth of true hospitality

HAVE YOU EVER CONSIDERED the part that room-temperature plays in a guest's opinion of your hospitality? All too often, a night made restless by heat sends some booster away with ice in his heart. And no amount of warmth in your greeting at the desk can survive the effect of a radiator that sulks . . . That is why The Statler, United and American chains as well as hundreds of other hotels use Webster Systems of Steam Heating extensively. Webster Service helps you determine the exact type of system best suited to your locality and operating conditions, insures perfect circulation of steam at least cost, and offers the personal cooperation of a nation-wide corps of trained steam heating specialists whenever their services are needed.

Let the nearest Webster office show you how Webster Service can provide the friendly warmth of true hospitality for all of your guests—all of the time.

Warren Webster & Company
Pioneers of the Vacuum System of Steam Heating
Camden, N. J.

In Canada, Darling Bros., Ltd., Montreal

—since 1888

Webster
Systems
of Steam Heating

More than 37,000 installations in America's finer buildings.

Decorate with Artistic Lighting Equipment

COME TO CLEVELAND!

National Exhibition of Lighting Equipment*

*Joint Conventions of National Association
of Lighting Equipment Dealers and Artistic Lighting
Equipment Association will be held at the*

Hollenden Hotel, January 31 to February 5, inclusive

HERE, all that is best and modern in lighting equipment will be displayed under one roof. This is the *only* exhibition of its kind—nothing of greater *educational* or *business building value* to the lighting equipment industry or to the user has ever before been attempted.

All architects, who would know of better artistic lighting equipment of quality, should attend this exhibition. Here, also, you will gain a more thorough understanding of what can be accomplished through co-operative effort in increasing lighting equipment sales and installations.

Come to Cleveland—your attendance at this exhibition will result in *knowledge that can be turned to profit*.

Certain days this exhibition will be open to the public, also, and these *buyers* are certainly interested in what you can provide them in better and more artistic decorative lighting equipment, properly designed to harmonize with their surroundings.

Again, *come to Cleveland!* The most modern equipment for the home, factory or public building will be displayed here.

Complete Details—Reduced R. R. rates will apply. Those desiring information as to space for exhibits may secure all details by writing or wiring Artistic Lighting Equipment Association, 424 Guarantee Title Bldg., Cleveland, Ohio.

On Display

- *Ceiling and wall fixtures
- Table and floor lamps
- Lamp shades and illuminating glassware
- Industrial and commercial units
- Lighting equipment—parts and supplies of all kinds
- Metal furniture, etc.



A NATIONAL ORGANIZATION

Watch for this emblem when buying lighting equipment. It is a guarantee of honest merchandise at a fair price.

Hospital sterilizer specifications made easy

*Architects' Data Sheets
give essential details*

Full information on the following sterilizer installation details is given in the Architects Data Sheets:

Layout	Wiring
Dimensions	Venting
Clearances	Draining
Piping Outlets	Condensation

These are for every kind and size of sterilizer and any combination thereof. This is a 16 page booklet and is file size. Specimen pages are shown at the right.

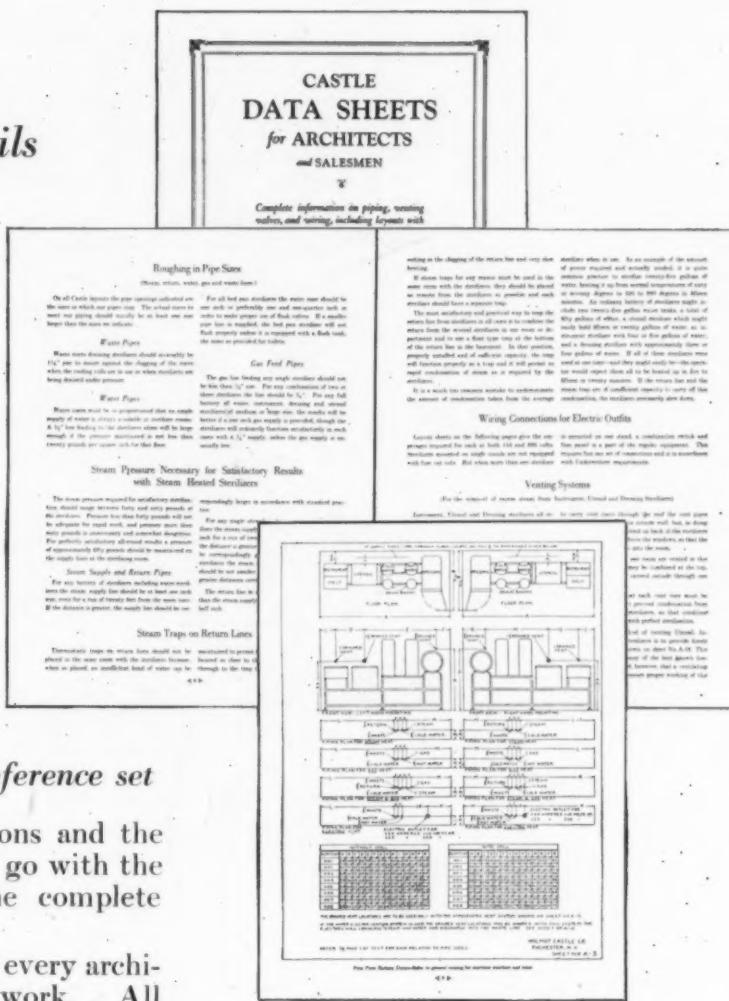
Two other books in complete reference set

A set of Sterilizer Specifications and the Castle Hospital Sterilizer Catalog go with the above Data Sheets and make the complete sterilizer reference set.

This should be in the office of every architect who contemplates hospital work. All three will be sent without obligation to those filling in the coupon below.



The Three Books



Complete Set Free on Request

CASTLE

Sterilizers for Hospitals, Physicians, Surgeons and Dentists

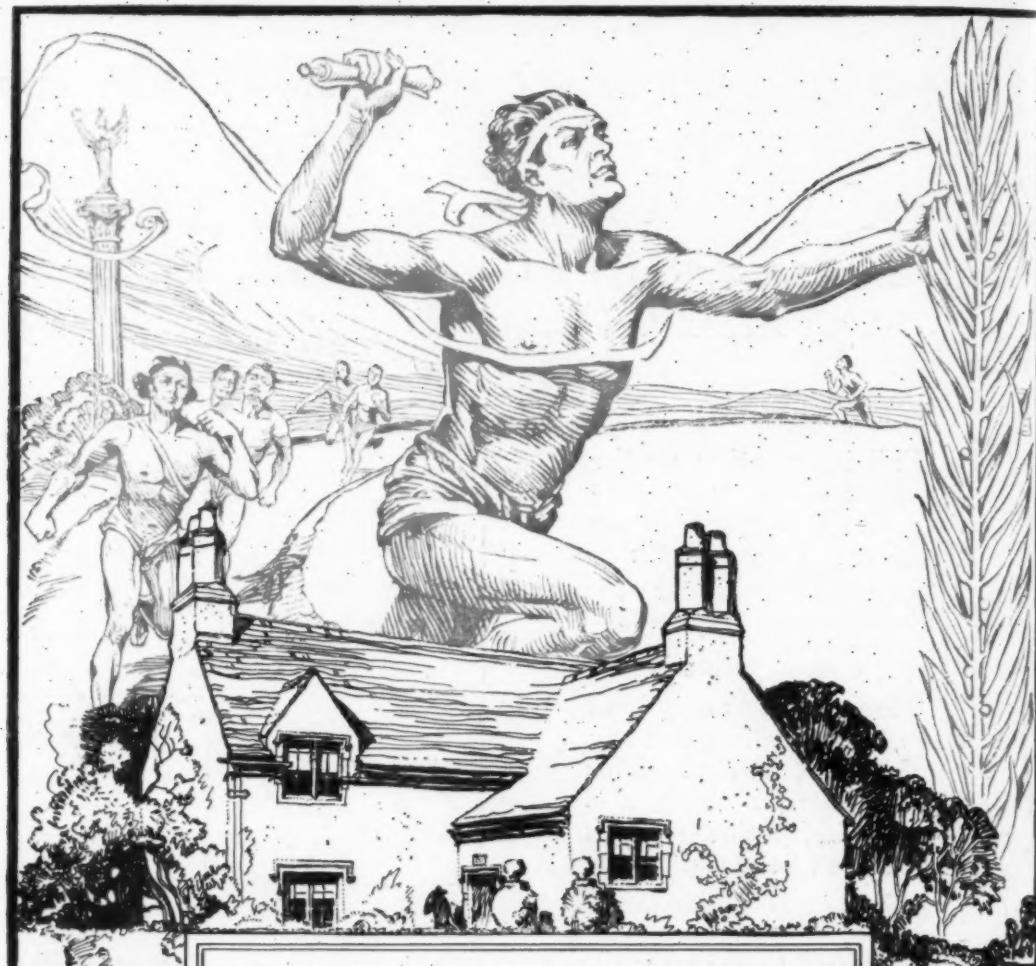
Please send your set of Hospital Sterilizer Data to

Attention of

Firm

Address.....

Mail this to Wilmot Castle Co., 1209 University Ave., Rochester, N. Y.



THE above illustration is from a Lehigh announcement (in general magazines) on the beautiful Lehigh Prize-Winning Homes. Leading architects supervised the building of each demonstration home. The twenty-eight prize-winning designs were offered to the public as suggestions in the book "28 Better Homes." Readers were urged to engage an architect.

Thousands of people inspected THE MODERN TREND IN

Forty thousand more wrote us about them.

PICTURES and complete architectural details of four Lehigh Prize Demonstration Homes, plainly showing the new trend in concrete construction, have been incorporated in a forty-page book entitled, "Building Better

Homes." This book will be sent you on request.

The four homes were built not only to show the trend toward permanence through concrete construction, but to indicate its beauty possibilities as well as its practical character. The book contains a picture story of construction, step by step, general views and close-ups. Costs,

LEHIGH PORTLAND



THE four houses described in this book are from among twenty-eight prize-winning designs selected from the Lehigh Competition by the following architectural jury:

DAVID ADLER, Chicago AYMAR EMBURY II, New York
 CHARLES G. LORING, Boston D. WEST BARBER, Knoxville
 HARRIE T. LINDEBERG, New York

these beautiful Prize Homes to see CONCRETE CONSTRUCTION

specifications, and quantities of material are given. Proper application of stucco is graphically shown and the almost limitless variety of texture and colors possible with grey Portland Cement.

We are told that this book is a notable contribution to authentic literature on the subject.

It is a suitable sequel to "28 Better Homes," a book showing the twenty-eight prize-winning designs and which has been so widely welcomed by architects.

Mail us your request and we will gladly send you a copy of "Building Better Homes." Use the coupon if you find it convenient.

CEMENT COMPANY

LEHIGH PORTLAND CEMENT CO., Box 1-L, Allentown, Pa.
 Please send me "Building Better Homes."
 Name.....
 Street.....
 Place.....



SARGENT

Locks & Hardware



SARGENT
HARDWARE

HOTEL OLDS
Lansing, Mich.

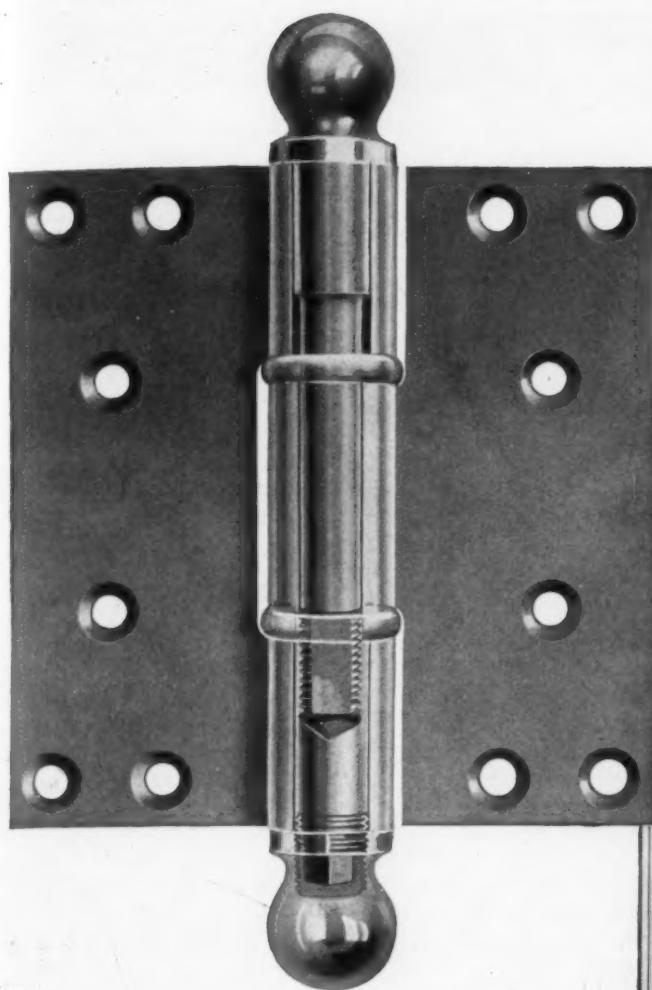
Holabird & Roche
Architects

HOTELS equipped with Sargent hardware may be seen in practically every section of the country. They range in size and prominence from the modest havens for commercial travelers in isolated communities to the largest hotels in the metropolitan centers. Choice of Sargent locks and hardware of solid, time-resisting brass or bronze is a guarantee of lasting service —of security and protection for both guests and management. Another reason for their wide use in hotels, apartments, office and public buildings is the convenience of the Sargent system of master-keying.

SARGENT & COMPANY, Hardware Manufacturers
NEW HAVEN, CONN.

New York: 92 Centre Street

Chicago: Wacker Drive at Randolph



For
HOSPITALS
and
HOTELS

1. Eliminates free swinging, slamming doors.
2. Operates against a smooth, easy pull.
3. Lubricated - cannot squeak.
4. Minimizes need for door checks.
5. Wears indefinitely.
6. No complicated mechanism.
7. No costly service or replacements.
8. Neat in appearance.

**The New
and Amazing McKinney Friction Control Hinge**

The salient features of this remarkable new hinge are listed above. They stamp it at once as the culmination of success in attaining what outstanding men in the profession have been hoping for, for years.

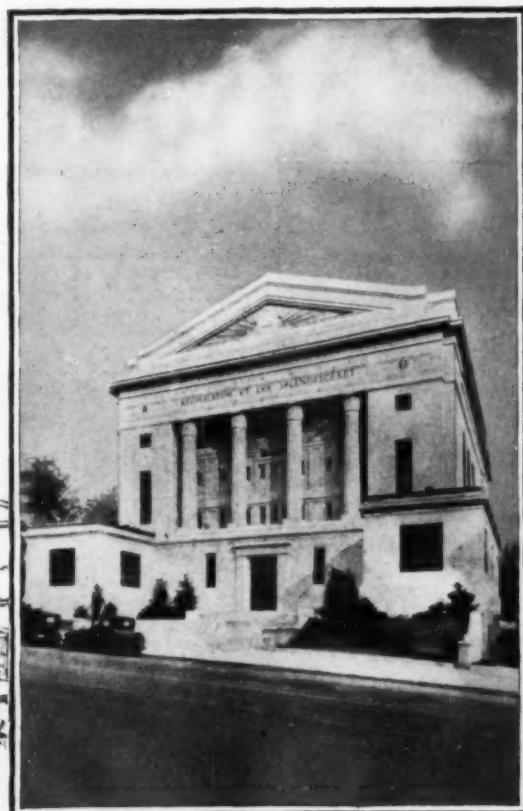
Tests equivalent to seven years of constant door-service have proved its positive simple action and its durability. We do not hesitate to say that the

features of this hinge are such as to make obsolete and inadequate any installations of ordinary free-swinging hinges in Hospitals, sleeping quarters, Hotels, Clubs and in all other places where tired nerves long for the assurance of tranquillity and quiet.

Additional information and samples will be sent upon request. McKinney Manufacturing Co., Pittsburgh, Pa.

*In precision machinery,
Ball Bearings prevent
the wear that would
destroy accuracy*

In fine, split-hair work, the thickness of an oil film—squeezed out when a load is applied—would ruin the accuracy of the work. The "point contact" of ball bearings gives absolute accuracy under all loads and prevents the wear that would destroy this accuracy.



*Masonic Temple
Springfield, Mass.*

*McClintock & Craig
Architects
Springfield, Mass.*

Stanley Ball Bearing Butts were used in this building.

The preventive for sagging doors... Ball Bearing Butts

AJUSTMENTS, repairs and replacements due to wear of butts add greatly to the cost of maintenance. Ball bearing butts practically eliminate this wear.

By eliminating such expense, ball bearing butts pay for themselves—absolutely. Consequently, ball bearing butts are an investment—not an added expense.

Stanley engineers have originated most butt and hinge improvements since 1852, including cold rolled steel, the non-detachable (non-

losable) washer, non-rising and self-lubricating pin, improved finish, and the use of ball bearings.

This wide experience enables us to make a product of uniformly high quality that sets the standard in butt manufacture. The Stanley trade-mark is on every butt.

The Architects Manual of Stanley Hardware contains information which will aid you in selecting and specifying the correct hardware. We will gladly send you a copy. A description of the Stanley line of Butts and Hinges can be found in Sweet's Catalogue, pages 1500 to 1503, and 1556 to 1568.

THE STANLEY WORKS, NEW BRITAIN, CONN.
New York Chicago San Francisco Los Angeles Seattle



STANLEY BALL BEARING BUTTS

STANLEY
S.W.



Good Buildings Deserve Good Hardware



No spotlight needed to find this keyhole—it comes to meet you in the knob of the Corbin Unit Lock

Yes, an *unusual* place to put a keyhole but a convenient place to find it. But this is an *unusual* lock. It leaves the Corbin plant completely assembled—not "knocked down." It is easily applied in five minutes—and it will work perfectly ever after.

For all doors in office and public buildings, for all exit and entrance doors it is known as "the perfect lock". It deserves the title for it is perfectly made, perfectly designed and it will work perfectly as long as the building stands.

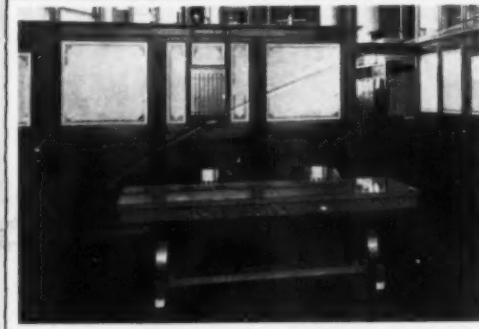
Whatever the hardware need may be, Corbin answers it in an unusual way—unusual in the way it works, the way it lasts, distinctive in the way it looks. No wonder so many architects say Corbin Hardware is Good Hardware.

P. & F. CORBIN SINCE 1849 NEW BRITAIN CONNECTICUT
The American Hardware Corporation, Successor
NEW YORK CHICAGO PHILADELPHIA

Worthy of THE FINEST ROOF

The life of a roof is largely dependent on the nails that hold it. Made of solid copper this new roofing nail will last a lifetime. It cannot rust nor streak and the extra large head insures the roofing being held permanently in place. Furnished in numbers 10, 11 and 12 gauges and in lengths from $\frac{3}{4}$ " to $2\frac{1}{2}$ ". Samples and prices upon request.

JOHN HASSALL, INC.
CLAY and OAKLAND STREETS
BROOKLYN · NEW YORK
Established 1850

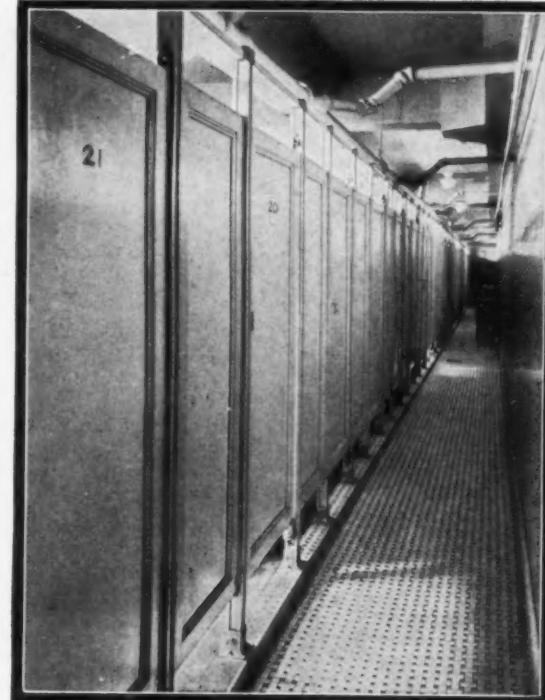


Partitions in Standard
Sized Units
Special Interiors in
Wood . . . Directors'
Rooms . . etc . . .



also Stock Boards
and Ticker Stands

ESTABLISHED 1893
MOUNT & ROBERTSON, Inc.
62 Broad St . . . New York
Tel: Hanover 5727



Sanymetal in Penn Athletic Club, Philadelphia.
Zantzinger, Borie & Medary, Architects

It's a Stronger Job

THAT Sanymetal Partitions have outstanding features of strength and rigidity can be demonstrated by a study of these features:

(1) Unique and original Interlocking Design in the assembly of units holds all members in a rigid grip.

(2) More-than-adequate bolting at floor and wall—the installation actually becomes *part of the building*.

(3) The sheet metal panels, posts and molds are, at every point, of sufficient gauge to stand unexpected stress and strain. There is no skimping—no "thin sheets."

Sanymetal Toilet and Office Partitions are made in a grade and design adapted to every requirement of price and service. The consulting service of our engineering department is at your disposal—no obligation.

Sanymetal Products are: Partitions for
toilets, showers, dressing rooms, urinals.
Partitions for offices and factories. Metal
doors, screens and wainscot. Sanymetal
Gravity Roller Hinges for toilet doors.
Write for new Catalog No. 15.

THE SANYMETAL PRODUCTS CO.
1702 Urbana Rd. Cleveland, O.

Sanymetal
Toilet and Office
PARTITIONS

TOTALLY DIFFERENT

Hauserman

MOVABLE STEEL
PARTITIONS

PATENTS APPLIED FOR

A TYPE AND GRADE FOR EVERY PURPOSE

Hauserman Service is Nation-wide

YOUR clients can have Hauserman Steel Partitions wherever and whenever they want them—installed under Hauserman direction by Hauserman men. A complete service including manufacture, engineering and erection for which we assume entire responsibility from start to finish.

Hauserman installations are nation wide for nationally known companies, such as:

American Can Co.
Bauer & Black, Chicago
Cadillac Motor Car Co.
Cleveland News Publishing Co.
Union Gas & Electric Co.,
St. Louis
Commonwealth Edison Co.,
Chicago
Eastman Kodak Co.
Famous Players Lasky Corp.
Ford Motor Car Co.
General Electric Co.
Gillette Safety Razor Co.

Goodyear Tire & Rubber Co.
Los Angeles Evening Herald
National Biscuit Co.
New York Telephone Co. (Barclay-Vesey Bldg.)
Pittsburgh Plate Glass Co.
San Francisco Call.
Standard Oil Co.
Studebaker Corp.
Texas Power & Light Co.
United States Steel Corp.
Westinghouse Electric & Mfg. Co.

Send blue prints or sketches for suggestions and estimates by Hauserman engineers.

THE E. F. HAUSERMAN COMPANY
6803 Grant Avenue CLEVELAND, OHIO
NEW YORK BOSTON DETROIT PITTSBURGH CHICAGO

The 7 points of Superiority

1. Complete Line.
2. Built of Steel.
3. Attractive Appearance.
4. Greatest Movability.
5. Sensational Prices.
6. Easily Wired.
7. Erection Service.

*found in all 7 types
of Hauserman Partitions*



Income Producing Property

BECAUSE Circle A Partitions, themselves, are income producing property, they have aided many owners and managers in putting, or keeping, business buildings in class of income producing property.

Circle A Partitions, sectional and movable, are really operating equipment, they can be used over and over again to satisfy the new demands of old tenants, or meet the arrangements desired by new ones.

Because they never grow dingy, they present an attractive appearance even after many years of use, whereas plaster walls require frequent cleaning and decorating, if they do not have to be wrecked and rebuilt as the demands of business change.

Our attractive new booklet will tell you how Circle A Partitions are producing income on many business properties. Shall we send you a copy?

CIRCLE A PRODUCTS CORPORATION

650 South 25th Street, Newcastle, Indiana

New York Office: Farmers Loan and Trust Bldg., 475 Fifth Ave., New York



Garland Building, Chicago



BOOK DEPARTMENT

Architecture in England Under the Later Georges

A Review by VICTOR C. GIFFORD

IN this volume there is given a general view of the architecture of the reign of George III, with some account of the various men who produced it, from architects of prominence, such as Robert and James Adam and Lord Burlington, to the work of little known and merely provincial men, showing that so long as a single style was dominant, its forms and proportions could be established and used with success by men of moderate abilities and narrow training.

The English in 1760 were tiring of Palladian pedants and Rococo designers. Many architects, though they may have desired to express themselves in a new or individual manner, clung somewhat closely to established form. Chief among these were James Paine and Sir Robert Taylor, who had neither the natural originality nor the acquired knowledge to stamp them as originators of a style. Robert Adam left England for Rome in 1754, and made full use of his time and abilities, and in his endeavor to get away from mere "temple" architecture he visited Spalatro, where Diocletian's palace in great measure survived. Adam absorbed all that was earliest and best in the architecture and decoration of the Italian Renaissance before the beginning of its Baroque phase, and establishing himself in London in 1758, he rapidly made his reputation as the leading light of the new school. From the time of his return from Italy may be dated a very remarkable improvement in building construction and furniture design in London and throughout England. A representative but not exhaustive list of the men who produced the domestic architecture of the day includes the brothers Adam, Robert and James; William Chambers, who was appointed to teach architecture to the Prince of Wales, afterward George III, and who in 1759 published his "Treatise on Civil Architecture";—George III allowed him to use a knight's title, and he became known as Sir William Chambers; James Gandon, a pupil of Sir William Chambers, who published the fourth and fifth "Vitruvius Britannicus"; Henry Holland, who held the appointment of architect to His Royal Highness until his death, and who remodeled Carlton House when it was assigned as a residence to the Prince of Wales when he came of age in 1783; and James Stuart, known as "Athenian Stuart," through his "Antiquities of Athens," published in 1762.



Library, Kyre Park, Worcestershire
An Illustration from "English Homes, Later Georgian Period"

There was also James Wyatt, whose exhibition of his designs for the Pantheon, a building which in 1771, although still incomplete, amazed Horace Walpole, and which raised general enthusiasm when it was opened in 1772. In a few years he had outdistanced even Adam, then preëminent in the extent of his country practice.

The volume is superbly illustrated and sets forth the excellence of the Georgian architecture of that day. Included among the illustrations are those of Ashridge Park, built on the site of an old home of his ancestors by the seventh Earl of Bridgewater from designs by James Wyatt. Bayfordbury, south of Hertford town, was built in early Georgian style by Sir William Baker in 1759-1762, but his son enlarged and remodeled it in the neo-

Greek manner in 1809-1812. Tabley House, near Knutsford in Cheshire, was built for the Leicester family in 1761 by Carr of York, who also carried out later additions. Mention is made of Jacob Tonson of Sedbury, a well known bookseller, who ran the famous "Kit Cat Club" and owned portraits of its members. The chief treasure and delight of his home, Bayfordbury, consists, in the opinion of most people, not of its architecture, its furniture, or its trees, excellent as these are, but of its paintings, for among them there still remains that remarkable and historic set of portraits of the members of the Club. We are told by Thomas Hearne, in an entry he made in his diary in 1705, that the "Kit Cat Club came to be so called from one Christopher Cathing (a pudding pyeman) with whose puddings and conversation the first founders of the society were extremely well pleased." A letter written by Vanbrugh in 1763 refers to his building a room in his house, "Barn Elms," now the Ranelagh Club, wherein to entertain the Kit Cat Club and to hang the portraits of its members painted expressly for him by Sir Godfrey Kneller. In this section of the volume there are reproduced the portraits of Sir John Vanbrugh, William Congreve, John Dryden, Joseph Addison, Sir Richard Steele, Jacob Tonson, Senior, and Sir Robert Walpole, the Duke of Grafton and Lord Mohun, and other lights in the architectural and literary worlds:

ENGLISH HOMES; Period VI—Volume 1; Later Georgian, 1760-1820. By H. Avray Tipping. 402 pp., 10½ x 15 ins. Price \$25. Charles Scribner's Sons, New York.

Any book reviewed may be obtained at published price from THE ARCHITECTURAL FORUM

Spanish Details

A Highly Practical Work on the Spanish Renaissance

By William Lawrence Bottomley



IN this volume there is presented a collection of illustrations and measured drawings of carefully selected details of Spanish Renaissance architecture. The work of a New York architect who has been notably successful in attractive use of Spanish motifs in his own practice, the volume presents not so much work of a striking and magnificent character as what is comparatively moderate in scale and therefore adaptable for present-day use in America.

The volume is replete with illustrations of well chosen, simple Spanish facades, doorways, windows, balconies, balustrades, exterior stairways and the grilles of wrought iron or carved and turned wood which are used at gates, windows and doorways. Interior details include the arcades of patios, ceilings, chimneypieces, floors, doors, shutters, wall fountains, etc., and since in most instances the illustrations are accompanied by measured drawings the reproduction of these details is not difficult.

Of all the recent works on the Spanish Renaissance this is perhaps the most practical for actual use.

Frontispiece in color; 104 plates and measured drawings, 11 x 13½ ins. In portfolio form, \$12.50; if bound, \$15.

ROGERS & MANSON COMPANY
383 MADISON AVENUE NEW YORK

MEXICAN ARCHITECTURE, DOMESTIC, CIVIL AND RELIGIOUS. Text and Illustrations from Photographs by Atlee B. Ayres. 150 Plates, 12½ x 16 ins. Price \$25. William Helburn, Inc., New York.

Writers on subjects connected with architecture have many times emphasized the fact that the architecture of probably no other country is as little known to Americans as that of Mexico, a land separated from our own not by vast expanses of ocean, but by the narrow Rio Grande. Various American architects and writers have explored the countries of Europe,—particularly during late years have they explored and studied Spain,—producing works of incalculable value to architectural designers as well as to writers and historians; but for one reason or another the really noble and splendid architecture of Mexico, particularly of religious buildings almost at our very doors, remains relatively unknown.

The architecture of any country must necessarily be studied in the light of the country's political history. The American colonies, outposts for the most part of English civilization, produced upon these Atlantic shores architecture modeled as closely as was possible upon that then current in England. Mexico developed something patterned after what prevailed in Spain, for Mexico was for ages a possession of Spain, and the wealth which she poured into the coffers of the mother country supplied in large part the means which made possible much of Spain's architectural development. With Mexico's exploitation almost completely in the hands of Spanish generals, governors, soldiers and ecclesiastics, to say nothing of architects and engineers, and with almost limitless resources closely at hand, there came into being marvelous works in the way of engineering, superb cathedrals and churches, and well ordered cities and towns modeled upon the Spanish pattern, and all this when the American colonies were barely emerged from their early primitive stages; and notwithstanding war, domestic upheavals, and the chronic state of revolution which has been Mexico's portion, these achievements, and many of a later day, remain for the embellishment of American architecture.

The value of Mr. Ayres' work to architectural designers will be great. He has been rarely successful in obtaining photographs of buildings which while not of the first magnitude as to size or cost are those which are most useful as models here in America. This usefulness applies particularly to illustrations of domestic structures and religious buildings,—perhaps especially to those of religious buildings, for of late there seems to have come into vogue in America in planning churches a certain appreciation of what one might call "structural integrity"—building which is real and genuine rather than of the "office building" type, and many of these fine old Mexican churches, afford examples of this integrity and offer examples of structures which may be developed upon scales either modest or lavish. Like almost all books dealing with Mexican or Spanish architecture, this volume devotes considerable space to illustrating interiors made beautiful by work in the form of metal forging, wood carving and the making of pottery and tiles, forms of art which sometimes seem to be almost as full of appeal as architecture itself. Possibly if it were not so feudal and its history so dramatic, the impression of vast strength gained from the architecture of Mexico, would not be so impressive. Mexico's inborn pride and her isolation gave whatever she did a distinct national flavor.

BUILDING FOR RELIGIOUS EDUCATION. By Henry Edward Tralle and George Ernest Merrill. 186 pp., 5½ x 8 ins. Price \$2. The Century Company, New York.

As the art among all the arts which sustains the closest relations with life, architecture is of course influenced by all the changes which time brings to human existence. In no sphere of architecture is this being more strikingly illustrated than in that which has to do with structures planned and built to serve purposes directly or indirectly connected with religion. Over a great part of the religious world there have come, during the last 50 years, changes in point of view which seem to have been of the first magnitude. Growing indifference to dogmatic teaching has brought into new prominence the importance of what is today known as "social service," practically unknown a half-century ago, but now frequently depended upon to hold the interest of people to whom doctrinal teaching or belief has ceased to exert any very strong appeal. This change has brought into wide favor buildings devoted to, in addition to Sunday School purposes, club or social uses, Boy Scout and Camp Fire organizations, gymnasiums, swimming pools, bowling alleys, kitchens and many other adjuncts which are necessary or at least very helpful where much is made of social service; and many of these buildings, since they are often the work of experienced architects, are models of everything which such structures should be.

It is, of course, extremely helpful to have presented in book form an account of the progress thus far made in work of this character, particularly by men as widely experienced as Dr. Tralle, a specialist in religious education and author of "Psychology of Leadership," "Dynamics of Teaching" and several other works, and Mr. Merrill, who in addition to being a member of the American Institute of Architects, is one of the authors of "Planning Church Buildings." In the volume there are described and illustrated by plans and views of interiors the most advanced and highly specialized of the numerous buildings devoted to this work. The volume is obviously intended to be an aid to clergymen and building committees entrusted with the carrying out of plans and erection of buildings for these forms of effort, and the thoroughness with which the authors cover every detail of the subject should be an immense help toward their achieving success in an admittedly difficult field.

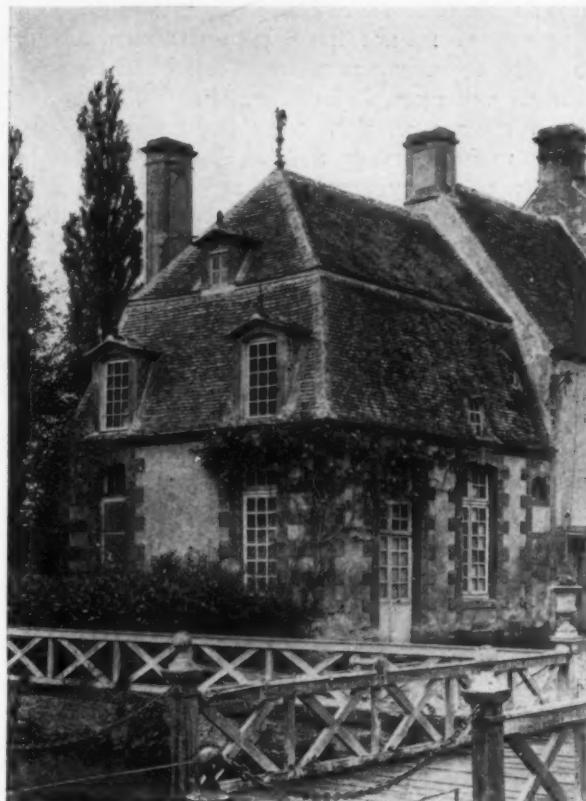
SOME LESSER KNOWN ARCHITECTURE OF LONDON. By James Burford and J. D. M. Harvey. Text and 70 pp. of illustrations. 7½x9¼ ins. Price \$6. William Helburn, Inc., New York.

PROBABLY because in America relics of an interesting and worthy architectural past are so few (and rapidly becoming fewer), the student is likely to look to other countries for that inspiration in the way of domestic architecture which is so largely denied to him at home,—to England chiefly, for there the spirit of progress moves at a less rapid gait than in America, and it deals rather more gently with the obstacles in the form of old buildings which interfere with its line of march. Not that countless treasures in the way of English architecture are not either gone or going; the fate of a large number of London's old churches seems to be even now trembling in the balance, famous Regent Street has disappeared, and there are frequently heard disturbing rumors regarding the impending fate of more treasures, rumors which warn the student to delay no more than is necessary.

FRENCH PROVINCIAL ARCHITECTURE

A Constructive and Practical Work on Minor French Buildings

By PHILIP LIPPINCOTT GOODWIN
and HENRY OOTHOUT MILLIKEN



Some of the most graceful and distinguished architecture in the world exists in French provincial towns, small villages and in tiny hamlets which cluster about the great chateaux—small manors, half-timber cottages, shops and buildings of other kinds. Much of this wealth of design is applicable to American use—the exteriors largely for suburban or country houses, and the interiors for residences or apartments. The authors, with unerring architectural taste and judgment, have selected just those details which possess proportions and suitability for present-day use. The volume contains illustrations, plans and measured drawings worth considerably more than the cost of the work.

*Text, 40 Plates of Measured Drawings
94 of Illustrations*

Size of Pages, 11 x 15 ins.
Price \$20

ROGERS & MANSON COMPANY
383 MADISON AVENUE NEW YORK

sary his sojourn in England if he would find that inspiration and enjoyment of architecture of which he goes in quest. Very little of architectural interest may remain.

But if interesting old buildings must disappear, let us at least have some record of their glories, lest their charm be entirely lost to the world, and this volume preserves in the form of illustrations many minor details of architecture in and around London which, while not in imminent peril of destruction, are likely eventually to go the way of much which has already vanished. There are countless localities in London or in the spread-out suburbs which lie on every side,—Chelsea, Southwark, Chiswick, Highgate, Stepney, Blackheath and many others,—where the charm of earlier days still lingers, often in stages of more or less picturesque decay, and the authors of this helpful volume have gathered from these and from other forgotten parts of London illustrations of certain old buildings, brick town houses in rows or in groups for the most part, their fine facades, porticos, hoods, entrance doorways and the ironwork in the form of railings, fences or gates which so frequently goes with them; or else of equally fine old structures which stand detached,—manor houses, perhaps, or the homes of prosperous merchants before they descended in the social scale to the status of almshouses,—but even as almshouses still boasting their pedimented gables, rich details of door and window surrounds, quoins of stone or of brick, and often their fine brickwork, laid in many excellent bonds and with keystones or string courses of brick or stone disposed in ways which often add high architectural dignity to an exterior which would otherwise be commonplace. Several of the most valuable plates show

piers of brick or of brick and stone placed as parts of gateways or as supports for the iron fences which pre-Victorian architects knew so well how to use, while other plates deal with the "memorial tombs" which are seen in so many of London's old and half-forgotten graveyards, tombs which make excellent use of classical details and funerary urns, motifs which are much used today.

BUILDING MECHANICS. By W. G. Sheppard. 264 pp., 5½ x 8¾ ins. Price \$4. Oxford University Press, New York.

THE relations between architecture and engineering, which are so close and intimate that it is difficult to designate the point at which one ends and the other begins, lend to any department or division of the subject of engineering an interest to architects who might be supposed to be concerned chiefly in design. This work by a well known English structural engineer is an attempt to fill one gap in what might be called the literature of engineering. There are several treatises on the theory of structure, but they are as a rule so written that a complete knowledge of higher mathematics is demanded of those who would profit by them. The subject by its very nature is one which would hardly engage the attention of the inexperienced, and this volume has been prepared with the needs of students in technical schools chiefly in view. As engineering involves a number of problems of different sorts, to help the student the supplementary matter at the end of the book gives a complete table of the dimensions and properties of British standard steel joists. The fact that it is based on English rather than American engineering practice does not impair its value to students of the subject but increases it by giving a wider view and many constructive hints.

PROVINCIAL HOUSES IN SPAIN

By Arthur Byne & Mildred Stapley

ARCHITECTS value Spanish types of domestic architecture because of their simplicity of design and plan and also because they are easily developed in materials inexpensive and easily had. Spain offers a choice of several kinds of residence architecture, types sufficiently different from one another to afford considerable range of selection, yet all possessing the same strength and virility, the excellent lines, the same graceful but unaffected grouping, and the discriminating use of detail which renders distinguished so many Spanish domestic buildings.

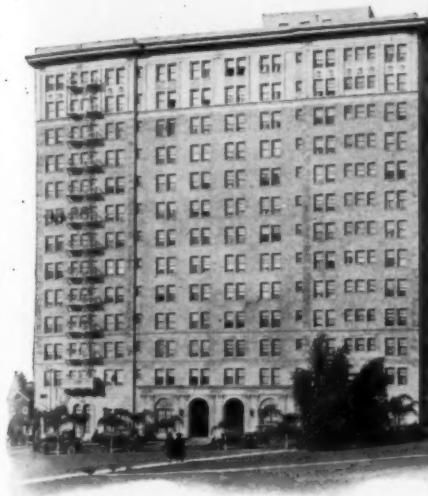
Houses in various parts of the Spanish peninsula, particularly the buildings of medium size in rural districts or provincial towns, offer excellent precedent for use in different parts of America where climate conditions are about what prevail in the provinces of Spain.



IN this volume two well known writers on Spanish architecture and decoration review the various forms which are given to the small or medium sized house in Spain. To render the work as helpful as possible to architects, the authors have included many plans and drawings of different kinds, details of such exterior parts of buildings as friezes, cornices, windows, timber overhangs, soffits and balconies, or of such interior parts of the structure as ceilings, fireplaces, doors and stairways. Part of the work deals with the tiles, pottery, ironwork, plaster in relief and the other forms of craftsmanship which contribute so much to the excellence of domestic architecture in Spain. It is a work likely to be invaluable to the designer.

The book contains text and 190 plates 12½ x 16 inches, and is bound in cloth. Price \$25, postpaid.

ROGERS & MANSON COMPANY, 383 Madison Avenue, New York



Gaylord Apartments, Los Angeles, Calif. 1046 Columbia Crescent Tint Shades (color Strained Honey) on Columbia Wood Rollers.

In addition to the institutions pictured here the following Los Angeles buildings are Columbia equipped:

*Los Angeles Gas & Electric Building
Arcade Building
Talmadge Apartments
National City Bank Building
Rosslyn Hotel Annex
Jonathan Club
Victoria Arms Apartments
Chelsea Hotel
New Orpheum Building
Boy's & Girl's Aid Society
Goodyear Tire & Rubber Co. (homes, apartments and administration buildings)
Pomona High School*



Standard Oil Bldg., Los Angeles, Calif. 415 Columbia Crescent Tint Shades on Columbia Metal Rollers.

Economy!

Cut your electric light bills— and window shade replacement costs

Plenty of sunshine out-doors—plenty of windows. Yet inside—electric lights going full blast!

All because of those dark, opaque shades at the windows—ugly, light-dimming shades that shroud each room in gloom.

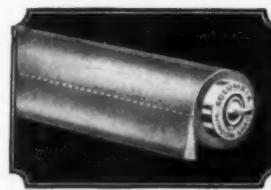
After all, why shut out free daylight and then pay for expensive artificial light? Is that economy?

Compare this absurd waste of daylight with the sound economy of *Columbia* Crescent Tint Window Shades—translucent tone-color shades

that admit a maximum of natural light, yet exclude all harsh, eye-straining glare.

And still another advantage: *Columbia* unfilled Shades are strong on durability. Never stretch, crack or pinhole.

That's because they're closely woven, firm-textured, carefully painted—built for the kind of usage that most hotel and office building equipment is subjected to, day in and day out. Replacement costs drop right down toward zero with these long-wearing window shades on the job.



So much depends on the roller! Inefficient, jerking rollers are a constant annoyance. But Columbia Rollers are easy-running, silent and trouble-proof.

The *Columbia* Mills, Inc.

225 FIFTH AVENUE, NEW YORK

Baltimore Boston Chicago Cincinnati Cleveland Detroit
Pittsburgh Kansas City Fresno New Orleans Philadelphia
Portland (Ore.) St. Louis San Francisco Minneapolis Los Angeles

Columbia GUARANTEED **WINDOW SHADES**
and ROLLERS



GEORGIA BAPTIST HOSPITAL, ATLANTA, GA.
Burge & Stevens, Architects

Hospital Building erected by
Turner Construction Company

The above building is of reinforced concrete construction throughout and shows how readily concrete can be adopted for institutional buildings.

TURNER CONSTRUCTION COMPANY

ATLANTA
BOSTON

PHILADELPHIA
NEW YORK

BUFFALO
CHICAGO

The ARCHITECTURAL FORUM

VOLUME XLV

NUMBER 6

CONTENTS for DECEMBER 1926

PLATE ILLUSTRATIONS	Architect	Plate	PLATE ILLUSTRATIONS	Architect	Plate																																																																														
Memorial Building, Plymouth, Mass	<i>Little & Russell and Joseph D. Leland & Co.</i>	81	Royal Air Force Memorial, London	<i>Sir Reginald Blomfield</i>	99																																																																														
War Memorial, Southport, England	<i>Grayson & Barnish and A. L. MacMillan</i>	82, 83	War Memorial, Glen Ridge, N. J.	<i>William Edgar Moran</i>	100																																																																														
Memorial at Ridgewood, N. J.	<i>Henry Bacon</i>	84	Memorial to Robert Louis Stevenson, San Francisco	<i>Willis Polk</i>	101																																																																														
St. Gaudens Memorial, Cornish, N. H.	<i>McKim, Mead & White</i>	85	Memorial at State House, Boston	<i>R. Clipston Sturgis</i>	102																																																																														
Voorhies Memorial, Denver	<i>W. E. & A. A. Fisher</i>	86	Flag Staff at Arlington, Mass.	<i>R. Clipston Sturgis</i>	103																																																																														
War Memorial, Englewood, N. J.	<i>Kenneth W. Dalzell</i>	87	War Memorial, Kearny, N. J.	<i>R. Clipston Sturgis</i>	104																																																																														
Memorial at New Rochelle, N. Y.	<i>Louis Metcalfe</i>	88	LETTERPRESS	Author	Page																																																																														
Soldiers' Gate, Brown University, Providence	<i>Coolidge, Shepley, Bulfinch & Abbott</i>	89	War Memorial, Bury, Lancashire	<i>Sir Reginald Blomfield</i>	90	Cover Design: Washington Arch, New York <i>From a Drawing by Louis C. Rosenberg</i>		67	Cheesman Memorial Pavilion, Denver	<i>Mearan & Norton</i>	91	War Memorial, Birkenhead, England	<i>Lionel B. Budden</i>	92	The Editor's Forum			Statue of Francis Asbury, Madison, N. J.	<i>Edward Dougherty and McKim, Mead & White</i>	93	Memorial Hall, Alexandria, Va.	<i>Helmle & Corbett, Architects</i> <i>Frontispiece</i>					War Memorial, Exeter, N. H.	<i>Henry Bacon</i>	94	Tablet, Chapel of the Intercession, New York	<i>Bertram Grosvenor Goodhue</i>	96	The Value of Memorial Architecture	<i>Harvey Wiley Corbett</i>	321	Macdonough Memorial, Vergennes, Vt.	<i>John Russell Pope</i>	97	Memorial Buildings	<i>Egerton Swartwout</i>	325	Memorial Fountain, Arlington, Mass.	<i>R. Clipston Sturgis</i>	98	Columns, Shafts, Cenotaphs and Tablets	<i>Paul P. Cret</i>	331				Bridges as Memorials	<i>William Emerson</i>	337				Royal Artillery Monument, London	<i>Adams, Holden & Pierson, Architects</i>	345				The Relation of Sculpture to Architecture	<i>Charles O. Cornelius</i>	347				Winchester College War Cloister	<i>Sir Herbert Baker</i>	353				Charlesfort Monument, Parris Island, S. C.	<i>Albert Simons and Samuel Lapham, Jr.</i>	357				Memorial Tablets	<i>Robert P. Bellows</i>	361
War Memorial, Bury, Lancashire	<i>Sir Reginald Blomfield</i>	90	Cover Design: Washington Arch, New York <i>From a Drawing by Louis C. Rosenberg</i>		67																																																																														
Cheesman Memorial Pavilion, Denver	<i>Mearan & Norton</i>	91	War Memorial, Birkenhead, England	<i>Lionel B. Budden</i>	92	The Editor's Forum			Statue of Francis Asbury, Madison, N. J.	<i>Edward Dougherty and McKim, Mead & White</i>	93	Memorial Hall, Alexandria, Va.	<i>Helmle & Corbett, Architects</i> <i>Frontispiece</i>					War Memorial, Exeter, N. H.	<i>Henry Bacon</i>	94	Tablet, Chapel of the Intercession, New York	<i>Bertram Grosvenor Goodhue</i>	96	The Value of Memorial Architecture	<i>Harvey Wiley Corbett</i>	321	Macdonough Memorial, Vergennes, Vt.	<i>John Russell Pope</i>	97	Memorial Buildings	<i>Egerton Swartwout</i>	325	Memorial Fountain, Arlington, Mass.	<i>R. Clipston Sturgis</i>	98	Columns, Shafts, Cenotaphs and Tablets	<i>Paul P. Cret</i>	331				Bridges as Memorials	<i>William Emerson</i>	337				Royal Artillery Monument, London	<i>Adams, Holden & Pierson, Architects</i>	345				The Relation of Sculpture to Architecture	<i>Charles O. Cornelius</i>	347				Winchester College War Cloister	<i>Sir Herbert Baker</i>	353				Charlesfort Monument, Parris Island, S. C.	<i>Albert Simons and Samuel Lapham, Jr.</i>	357				Memorial Tablets	<i>Robert P. Bellows</i>	361									
War Memorial, Birkenhead, England	<i>Lionel B. Budden</i>	92	The Editor's Forum																																																																																
Statue of Francis Asbury, Madison, N. J.	<i>Edward Dougherty and McKim, Mead & White</i>	93	Memorial Hall, Alexandria, Va.	<i>Helmle & Corbett, Architects</i> <i>Frontispiece</i>					War Memorial, Exeter, N. H.	<i>Henry Bacon</i>	94	Tablet, Chapel of the Intercession, New York	<i>Bertram Grosvenor Goodhue</i>	96	The Value of Memorial Architecture	<i>Harvey Wiley Corbett</i>	321	Macdonough Memorial, Vergennes, Vt.	<i>John Russell Pope</i>	97	Memorial Buildings	<i>Egerton Swartwout</i>	325	Memorial Fountain, Arlington, Mass.	<i>R. Clipston Sturgis</i>	98	Columns, Shafts, Cenotaphs and Tablets	<i>Paul P. Cret</i>	331				Bridges as Memorials	<i>William Emerson</i>	337				Royal Artillery Monument, London	<i>Adams, Holden & Pierson, Architects</i>	345				The Relation of Sculpture to Architecture	<i>Charles O. Cornelius</i>	347				Winchester College War Cloister	<i>Sir Herbert Baker</i>	353				Charlesfort Monument, Parris Island, S. C.	<i>Albert Simons and Samuel Lapham, Jr.</i>	357				Memorial Tablets	<i>Robert P. Bellows</i>	361																		
Memorial Hall, Alexandria, Va.	<i>Helmle & Corbett, Architects</i> <i>Frontispiece</i>																																																																																		
War Memorial, Exeter, N. H.	<i>Henry Bacon</i>	94	Tablet, Chapel of the Intercession, New York	<i>Bertram Grosvenor Goodhue</i>	96	The Value of Memorial Architecture	<i>Harvey Wiley Corbett</i>	321	Macdonough Memorial, Vergennes, Vt.	<i>John Russell Pope</i>	97	Memorial Buildings	<i>Egerton Swartwout</i>	325	Memorial Fountain, Arlington, Mass.	<i>R. Clipston Sturgis</i>	98	Columns, Shafts, Cenotaphs and Tablets	<i>Paul P. Cret</i>	331				Bridges as Memorials	<i>William Emerson</i>	337				Royal Artillery Monument, London	<i>Adams, Holden & Pierson, Architects</i>	345				The Relation of Sculpture to Architecture	<i>Charles O. Cornelius</i>	347				Winchester College War Cloister	<i>Sir Herbert Baker</i>	353				Charlesfort Monument, Parris Island, S. C.	<i>Albert Simons and Samuel Lapham, Jr.</i>	357				Memorial Tablets	<i>Robert P. Bellows</i>	361																											
Tablet, Chapel of the Intercession, New York	<i>Bertram Grosvenor Goodhue</i>	96	The Value of Memorial Architecture	<i>Harvey Wiley Corbett</i>	321																																																																														
Macdonough Memorial, Vergennes, Vt.	<i>John Russell Pope</i>	97	Memorial Buildings	<i>Egerton Swartwout</i>	325	Memorial Fountain, Arlington, Mass.	<i>R. Clipston Sturgis</i>	98	Columns, Shafts, Cenotaphs and Tablets	<i>Paul P. Cret</i>	331				Bridges as Memorials	<i>William Emerson</i>	337				Royal Artillery Monument, London	<i>Adams, Holden & Pierson, Architects</i>	345				The Relation of Sculpture to Architecture	<i>Charles O. Cornelius</i>	347				Winchester College War Cloister	<i>Sir Herbert Baker</i>	353				Charlesfort Monument, Parris Island, S. C.	<i>Albert Simons and Samuel Lapham, Jr.</i>	357				Memorial Tablets	<i>Robert P. Bellows</i>	361																																				
Memorial Buildings	<i>Egerton Swartwout</i>	325																																																																																	
Memorial Fountain, Arlington, Mass.	<i>R. Clipston Sturgis</i>	98	Columns, Shafts, Cenotaphs and Tablets	<i>Paul P. Cret</i>	331				Bridges as Memorials	<i>William Emerson</i>	337				Royal Artillery Monument, London	<i>Adams, Holden & Pierson, Architects</i>	345				The Relation of Sculpture to Architecture	<i>Charles O. Cornelius</i>	347				Winchester College War Cloister	<i>Sir Herbert Baker</i>	353				Charlesfort Monument, Parris Island, S. C.	<i>Albert Simons and Samuel Lapham, Jr.</i>	357				Memorial Tablets	<i>Robert P. Bellows</i>	361																																										
Columns, Shafts, Cenotaphs and Tablets	<i>Paul P. Cret</i>	331																																																																																	
			Bridges as Memorials	<i>William Emerson</i>	337																																																																														
			Royal Artillery Monument, London	<i>Adams, Holden & Pierson, Architects</i>	345																																																																														
			The Relation of Sculpture to Architecture	<i>Charles O. Cornelius</i>	347																																																																														
			Winchester College War Cloister	<i>Sir Herbert Baker</i>	353																																																																														
			Charlesfort Monument, Parris Island, S. C.	<i>Albert Simons and Samuel Lapham, Jr.</i>	357																																																																														
			Memorial Tablets	<i>Robert P. Bellows</i>	361																																																																														

PARKER MORSE HOOPER, A.I.A., Editor

Published Monthly by

ROGERS & MANSON COMPANY

383 Madison Avenue, New York

Howard Myers, Pres.; C. Stanley Taylor, James A. Rice, Vice-Pres.; Robert Sweet, Sec. and Treas.
Paul W. Hayes, Asst. Treas.Yearly Subscription Payable in Advance, U.S.A., Insular Possessions and Cuba, \$6.00. Canada, \$6.75. Foreign Countries
in the Postal Union, \$7.50

Single Copies, 60 cents. All Copies Mailed Flat

Trade Supplied by American News Company and its Branches. Entered as Second Class Matter at the Post Office at
New York, N. Y.

Copyright, 1926, by Rogers & Manson Company



DECEMBER.							JANUARY.						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
5	6	7	8	9	10	11	2	3	4	5	6	7	8
12	13	14	15	16	17	18	9	10	11	12	13	14	15
19	20	21	22	23	24	25	16	17	18	19	20	21	22
26	27	28	29	30	31	...	23	24	25	26	27	28	29
...	...	...	...	...	...	...	30	31	...	...	...	...	...

FEBRUARY.							MARCH.						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
5	6	7	8	9	10	11	12	1	2	3	4	5	...
13	14	15	16	17	18	19	13	14	15	16	17	18	19
20	21	22	23	24	25	26	20	21	22	23	24	25	26
27	28	...	...	...	...	...	27	28	29	30	31	...	...
...

High Early Strength Universal Concrete will help you turn these months into increased profit.

UNIVERSAL PORTLAND CEMENT CO.
210 South La Salle Street, Chicago.

Without obligation, please send me detailed information on methods for securing strong concrete in 3 days with standard Universal (not special) cement, the same quality Universal regularly used.

Name _____

Address _____

AF 12-26

When time is money...
use Quick-Hardening Concrete
made with standard Universal Cement

How Big Will Your Profits Be This Winter?

Whether the winter months will be months of profit for you depends largely upon whether you allow cold weather to interfere with building plans.

Today winter concrete is more practicable than ever before. During cold weather, materials must be kept at a warm temperature and the structure protected from freezing. Use of High Early Strength Universal Concrete shortens the period in which protection from freezing is necessary. It makes possible early removal of forms. It hurries completion of the job.

You can help turn cold-weather months into profit with high early strength concrete made by using special methods and standard Universal (not special) cement.

Detailed information furnished promptly on receipt of coupon.

Universal Portland Cement Co.

Chicago Pittsburgh Minneapolis Duluth Cleveland Columbus New York

Concrete for Permanence

THE EDITOR'S FORUM

TO the recent necrology of American architecture, a passage of necrology already impressive by reason of its length, more names must be added,—the names of Charles I. Berg, Frank W. Ferguson, Andrew C. McKenzie, George W. Maher, and James Hollis Wells.

CHARLES I. BERG

BORN in Philadelphia in 1856, Mr. Berg received the greater part of his architectural training at the Ecole des Beaux Arts, and during many years he was prominently identified with the Society of Beaux Arts Architects as well as with the Architectural League of New York and with the American Institute of Architects, of which he was a Fellow and for three consecutive terms Secretary of its New York Chapter. Mr. Berg was also a member of the Players' Club, the National Arts Club, and of various other organizations whose aim is to promote the development of architecture and the other fine arts. His death occurred on October 13, 1926.

FRANK W. FERGUSON

IN 1889 Mr. Ferguson became identified as a construction engineer with the Boston firm of Cram & Wentworth, to be admitted to partnership when the firm was reorganized later as Cram, Wentworth & Goodhue, and still later as Cram, Goodhue & Ferguson. During some 35 years Mr. Ferguson was "the solid, enduring, and ever-reliable foundation" on which the work of his organization was established and developed. "Self-effacing and modest to a degree, he never came prominently before the general public, but through the fair weather and foul of the formative years of the firm he was constantly present in all the material affairs of the office, and was the directing head of all its building operations. Possessed of unfailing patience, a serene philosophy and sense of humor, he bridged every difficulty and invariably brought order from threatened chaos.

"It was not his function to contribute to the artistic product of the firm, but aesthetics, after all, are only a part of architecture. For nearly a quarter of a century he saw to the material working out of the dreams and visions of his less practical associates, and therefore he played an equal part in whatever his firm produced." Besides being a member of the Boston Society of Architects, Mr. Ferguson was a Fellow of the American Institute of Architects. He died at his home in Boston October 4, 1926.

ANDREW C. MCKENZIE

BORN in Dunkirk, N. Y., and educated in Buffalo, Mr. McKenzie came to New York in 1884, and became associated with Babb, Cook & Willard. He later was associated with Cyrus L. W. Eidlitz, with whom he became a partner in 1902, at which time

they designed the Times Building in New York. Upon the retirement of Mr. Eidlitz in 1910, the partnership with Stephen F. Voorhees and Paul Gmelin was formed. While he was a member of this firm, McKenzie, Voorhees & Gmelin designed the West Street Building of the New York Telephone Company, the Telephone Buildings in Albany and Buffalo, the Brooklyn Edison Company Building, the Municipal Building of Brooklyn, and many others. Mr. McKenzie was a member of the American Institute of Architects, the Architectural League of New York, the Union League Club, Canadian Club of New York, the Railroad Club, the Briar Hills Country Club, and St. Andrew's Society, and the City Planning and Survey Committee of New York. His death occurred October 10, 1926.

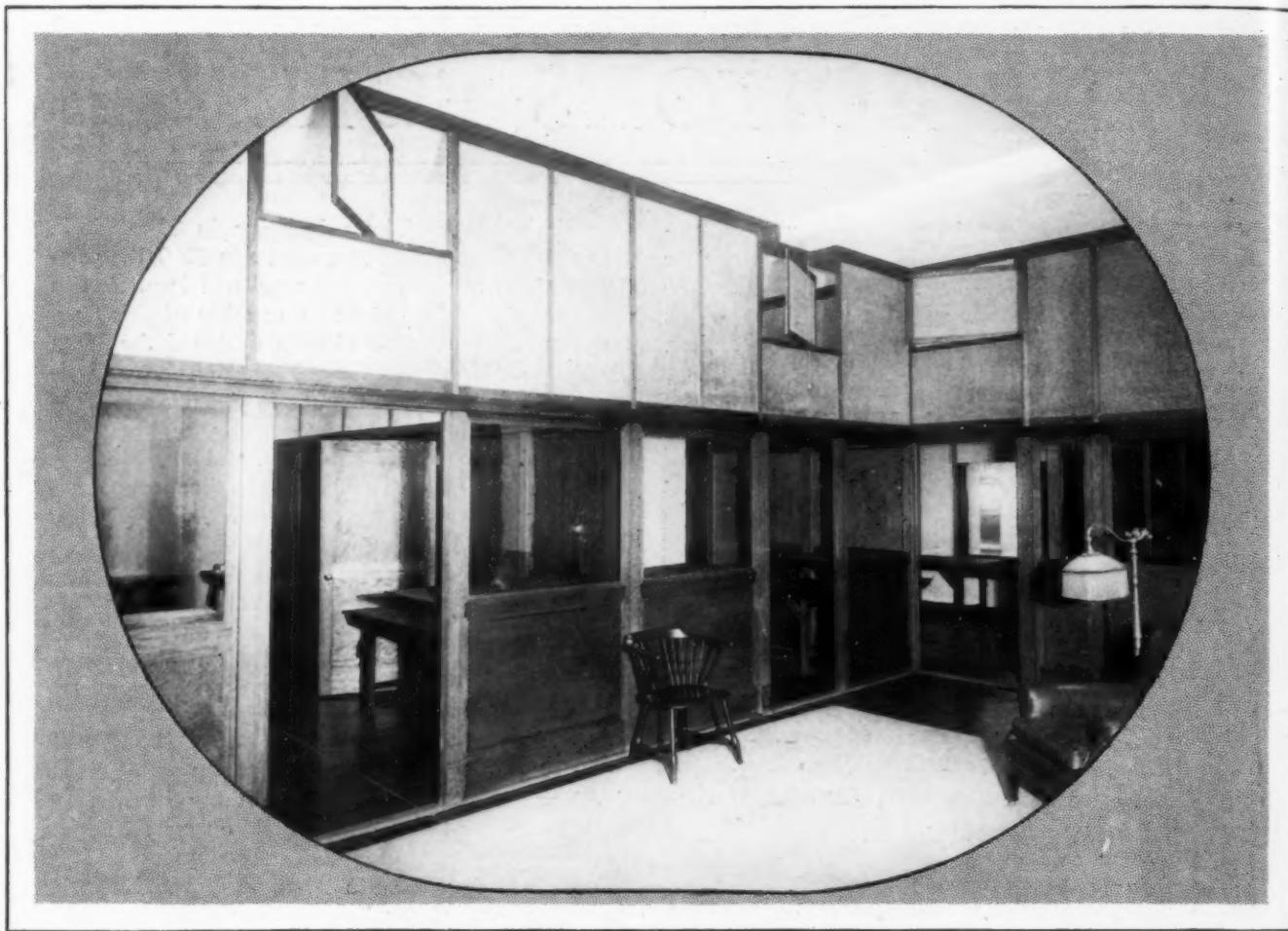
GEORGE W. MAHER

BORN in Michigan on Christmas Day, 1864, Mr. Maher was identified with the architectural development of Chicago and its vicinity during their highly important formative era and during the period of astonishing growth which has been going on since the ending of the World War. As an architect he possessed to an unusual degree that business acumen which must guide any successful architectural practice, along with other somewhat different qualities which pertain to the sphere of aesthetics. Added to these qualities he possessed to an extent wholly unusual that public spirit without the support of which many of the activities connected with present-day architecture would languish if not perish. He was a Fellow of the American Institute of Architects and a past president of the Institute's Chicago chapter.

JAMES HOLLIS WELLS

A FIGURE prominent in more than one sphere of New York life was removed by the death on September 24 of James Hollis Wells, senior member of the firm of Clinton & Russell and for many years in command of the 71st Regiment, N. Y. N. G. Born in England in 1864, he received the degree of Civil Engineer from Lehigh University in 1885 after having received his earlier education in the public schools of South Bethlehem, Pa., and having taught in the grammar schools of the same place. In 1886 he was appointed Inspector of Pavements in New York, and later was connected with a well known contracting firm before he became identified with the construction projects of the Vanderbilt interests, still later becoming associated with Clinton & Russell, the firm of which he finally became the senior member.

Colonel Wells during the 33 years of his service in the National Guard occupied many posts of honor in New York's "Seventh" before going to the 71st, of which he was for so many years colonel, and as a major he saw active service with the flag in Cuba.



Telesco Partition
REG. U.S. PAT OFF.
IT TELESCOPES

HERE is a wood and glass office partition that in 15 years has changed the partition habits of the nation.

It has entirely eliminated the loss and expense of changing office layouts. Erected entirely with screws, it can be taken apart and erected again without ripping and pulling it to pieces.

The Telesco Extension top reaches to any height ceiling quickly and securely. Normally 7' 0" high it can be extended to 13' 0" or more.

Telesco Cabinet Quality wood, construction and finish has set a new standard for office partition. The fact that electric wiring can run concealed and that outlets and switches can easily be provided for will be of especial interest to you.

Write for catalog and full details.

IMPROVED OFFICE PARTITION CO.
 ELMHURST, N. Y.

Sales Office: 9 East 37th St., New York City

KENSINGTON FURNITURE

AWARDED GOLD MEDAL OF HONOR IN NATIVE INDUSTRIAL ART
39TH ANNUAL EXHIBITION ARCHITECTURAL LEAGUE OF NEW YORK



EARLY 17TH CENTURY ENGLISH OAK COURT-CUPBOARD, by Kensington

ENGLISH oak furniture of the 17th Century expresses the character of a great home-loving people. In fact, much of its fascination lies in its livable quality—the sense it imparts of homely service. It has an individuality, too, not found in the more highly developed work of the Continent because it grew under the hands of the craftsman and was not the realization of a formal design previously conceived in detail.

We illustrate an interesting example—a court-cupboard reproduced from an early 17th Century original. The form is distinctly English, well-balanced and an excellent piece of cabinet construction. In all

of the ornament is the spirit of the renaissance, but most entertainingly rendered in the traditions of English craftsmanship. Furniture, such as this, so expressive of Anglo-Saxon character, finds its place naturally in the American home.

All of the character and the decorative quality of the old work are retained in Kensington reproductions, because they, too, are the product of real craftsmanship and faithfully reflect the spirit as well as the form in every detail of design.

Kensington Furniture is made in all the decorative styles appropriate for American homes.

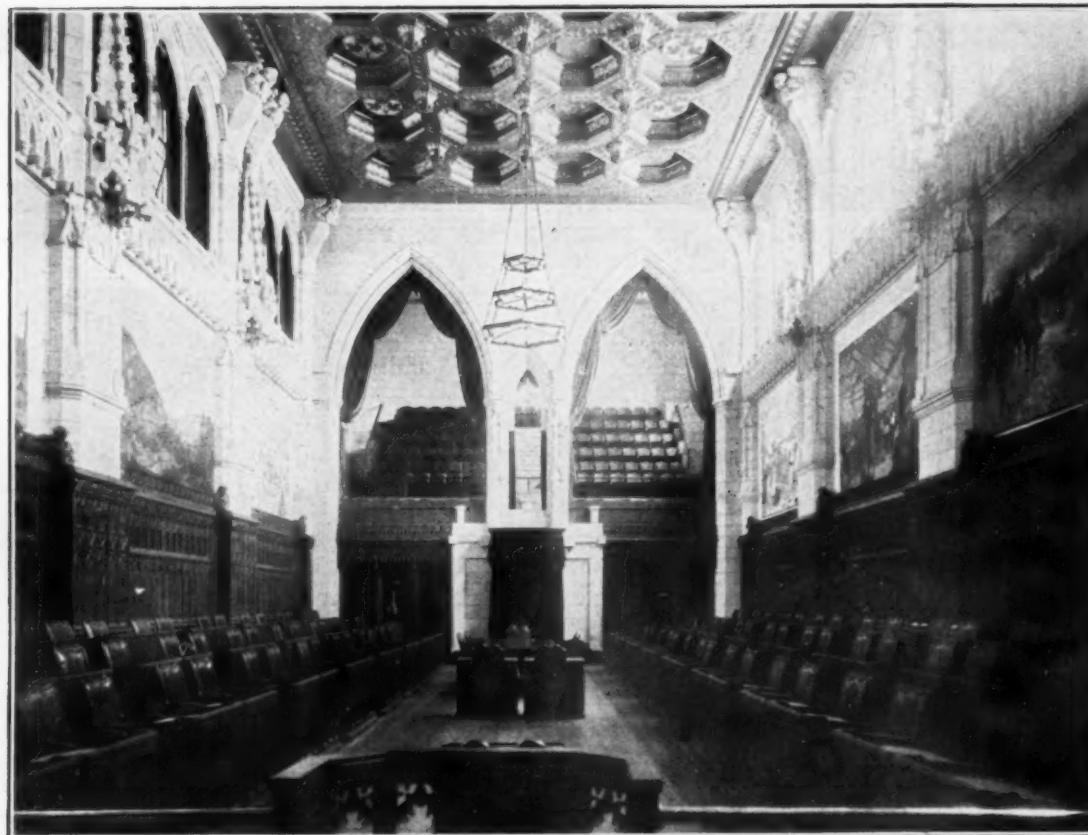
Architects interested in completing the interiors they design with furnishings harmonious in both character and quality are cordially invited to avail themselves of the service of the Kensington Showrooms and staff.

Illustrated Booklet F sent on request

WORK SHOPS
605-611 EAST 132ND
STREET

KENSINGTON MFG COMPANY
MANUFACTURERS AND IMPORTERS
DECORATIVE FURNITURE & ART OBJECTS
NEW YORK

SHOWROOMS
41 WEST 45TH STREET
6TH FLOOR



Senate Chamber in Canadian Parliament Buildings at Ottawa

Canada's Senate Chamber is in Walnut

HERE is an interesting example of the rich contribution in beauty and dignity which walnut makes to the public building.

In replacing the building destroyed by fire ten years ago, the architects selected materials which would last through the years and become more beautiful with age. Walnut is pre-eminently such a material.

Age only increases the beauty of walnut. There are plenty of historic buildings which prove this to be a fact. Years add a soft mellowness to walnut that gives it a constant charm.

Walnut is particularly well suited to purposes such as the one portrayed here because it is a wood which com-

*Write for
new free book
on paneling.
See below.*

bines to an unusual degree beauty with utility.

The woodwork of this room must withstand the coming and going of large numbers of persons. Walnut stands the wear of daily use perhaps better than any other wood. Dents and fingermarks seem to remain almost invisible upon the hard surface of this fine cabinet wood. This is largely because the

beauty of walnut is in the wood itself.

We have recently published an interesting book which gives valuable data on simple paneling jobs. This book is called "American Walnut for Interior Woodwork and Paneling." Send for a copy for your files. Use this coupon for convenience.

Fill in, clip and mail

AMERICAN WALNUT MANUFACTURERS' ASSOCIATION
Room 1000, 616 South Michigan Ave., Chicago

Please send

"American Walnut for Interior Woodwork and Paneling"

**AMERICAN
WALNUT**

"This is the Age of Walnut"

A HAPPY example of the modern trend toward artistic individuality in business interiors is illustrated in this photograph. Note the important role played by the striking floor of *Gold Seal* Marble-ized Tile.

This resilient cork-composition tile combines the standard BONDED FLOOR comfort, quiet and durability, with the rich color shadings of marble. Hundreds of luxurious designs are possible.

For these reasons, the architect seeking unusual effects in floors of proved merit will find it worth while to investigate *Gold Seal* Marble-ized Tile—and the BONDED FLOORS service and Guaranty Bond that go with it.

BONDED FLOORS COMPANY, INC.
1421 Chestnut St., Philadelphia, Pa.

Branches and Distributors
in principal cities

BONDED FLOORS

Salesroom, Ruud Manufacturing Company, New York City.



EXPERT ADVICE On Linoleum Specifications

For the convenience of architects we offer, through our sole selling agents, a complete contract service on linoleum floors.

In New York, or any of the cities listed below where there are branch offices, a Sloane representative will, upon request, cooperate with any architect, not only in recommending the particular type or grade of linoleum most suitable for any job, but also in drawing up specifications and supplying the names of representative contractors who are in a position to supply and lay the linoleum specified.

In availing themselves of this service, architects assure their clients of thorough satisfaction, both as to the quality of the linoleum and its installation.

Communicate with W. & J. Sloane, either at 577 Fifth Avenue, New York City, or at any of the branch offices listed below.

W. & J. Sloane Manufacturing Co., Trenton, N. J.

W. & J. SLOANE
THE LINOLEUM OF QUALITY



Branch offices at CHICAGO • BOSTON • DETROIT • SAN FRANCISCO • PHILADELPHIA • BALTIMORE
ST. LOUIS • DALLAS • DENVER • LOS ANGELES • PORTLAND and SEATTLE



French Bucolics told in pictures give this Toile de Jouy its Eighteenth Century charm



PEASANT LIFE in 18th Century France should have been a pleasant affair, from the pictures of it we find in these delightful toiles

A PEASANT woman rubs out her clothes on a rock beside a water-mill . . . two men gather in their nets after the day's catch . . . a boy bends beneath the weight of his sheaf of wheat . . . a man fishes, idly reclining on a mossy rock, while a girl and a dog sit quietly beside him.

These delightful scenes of rural France give this toile de Jouy an antique air, quite as if it had been designed by the famous J. B. Huet himself, back in the 18th Century.

They are developed on a cream background in rouge, dull blue, mauve, or sepia—all characteristic toile de Jouy tones.

Toiles de Jouy, with their little rural or historical scenes printed in a single clear color on a neutral background, make de-

lightful draperies or slip covers. They may be used for bedspreads or wall coverings, as well. And since they lend themselves to the decorative schemes of widely varied types of interiors—living-rooms, bedrooms, dining-rooms, sun rooms, children's rooms, libraries—these toiles have a large and ever-increasing following.

THE delightful pattern and color range of the Schumacher toiles de Jouy will be of the greatest interest to decorators, upholsterers and the decorating services of department stores. There are also other fine Schumacher drapery and upholstery fabrics suitable for furnishings of every period—lovely brocades, damasks, broca-

telles, velvets, tapestries, chintzes, linens, satins and taffetas.

"Your Home and the Interior Decorator"

Many people who could well afford the services of a decorator fail to do so through failure to understand how such a service functions.

To explain the economy and advantages of using a decorator, we have prepared the booklet, "Your Home and the Interior Decorator."

Beautifully illustrated in color, this book is being mailed to decorators, upholsterers and the decorating service of department stores. If you have not received a copy, please write us. And let us explain our special offer whereby you may send this book to your prospective clients. F. Schumacher & Co., Dept. J-12, 60 West 40th Street, New York, Importers, Manufacturers and Distributors to the trade only, of Decorative Drapery and Upholstery Fabrics. Offices also in Boston, Chicago, Philadelphia, Los Angeles and Paris.

F-SCHUMACHER & CO.

A GREETING ..AN APPRECIATION AND A PROMISE

*T*HE season's greetings are in order. The TUTTLE & BAILEY MFG. CO., wishes you A MERRY CHRISTMAS . . . A HAPPY, PROSPEROUS NEW YEAR.

As 1926 approaches its end, we find it fitting and natural to reminisce. During our eighty years existence it has been our pleasure to work with hundreds of architects. We have kept pace with architectural tendencies through four score years. We have progressed —achieved. Much of our advancement has been made possible by the confidence you have placed in us. A word of appreciation is not amiss . . . we thank you for your past favors and consideration.

Today—TUTTLE & BAILEY facilities reach around the world. Branch offices are established in centrally located cities. Each has a personnel capable of rendering architects in their vicinity efficient, prompt co-operation. We solicit your commissions with the promise that the same dependability associated with all TUTTLE & BAILEY dealings in the past is assured you in the future.

TUTTLE & BAILEY MFG CO.

Established 1846

441 LEXINGTON AVENUE
NEW YORK CITY



REGISTERS • GRILLES • RADIATOR CABINETS

AUTHENTIC PLASTER ORNAMENT

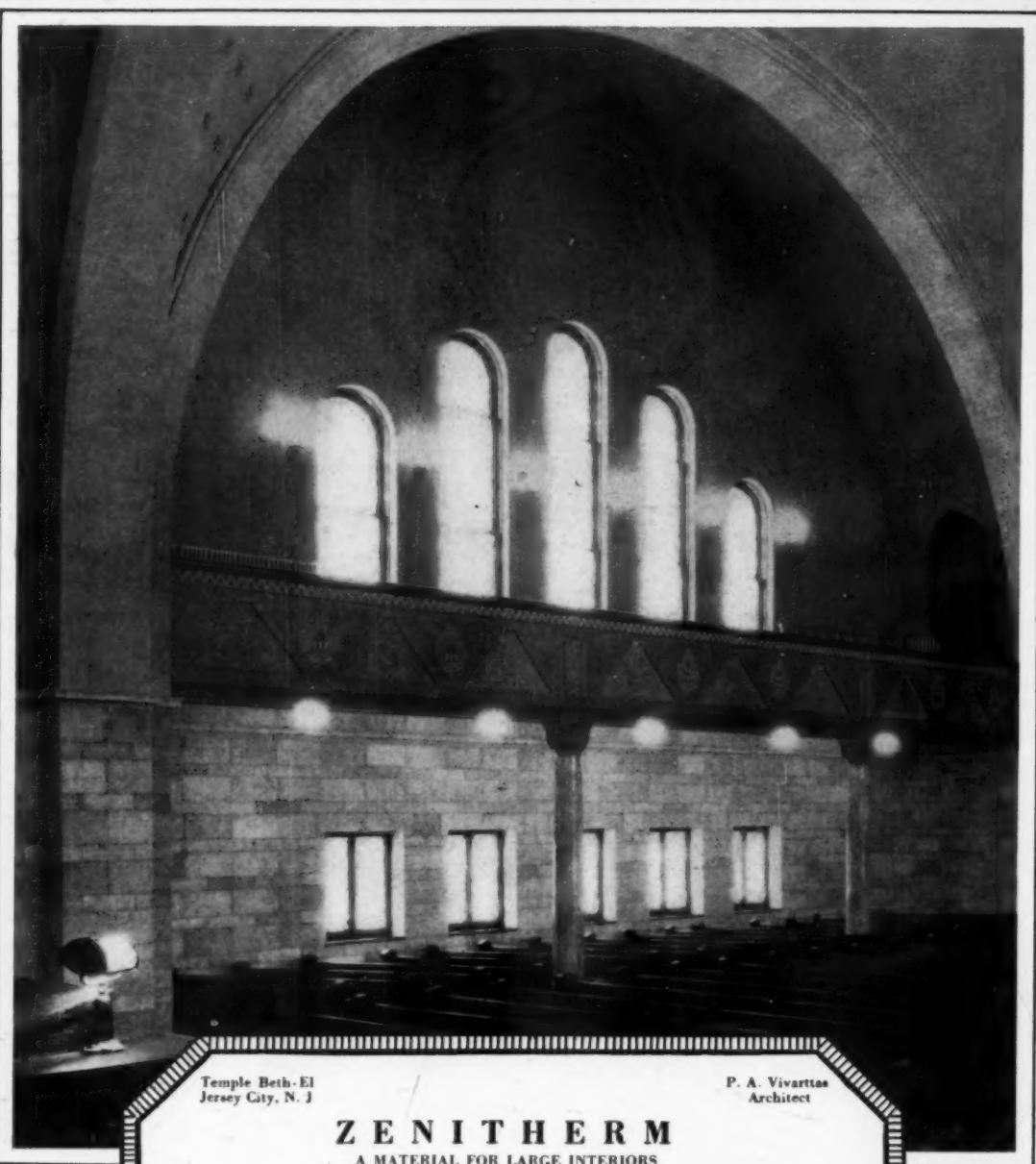
PLATE № 2
ENGLISH LIVING ROOM

JACOBSON PLASTER ORNAMENTS
ARE MOSTLY AUTHENTIC REPRO-
DUCTIONS OF FAMOUS WORK—
BECAUSE OF THIS FACT, MODEL-
ING CHARGES ARE ELIMINATED.
IN OUR CATALOGUE YOU WILL
FIND AN AMPLE SELECTION FOR
EVERY PERIOD OF DESIGN.

Robert von Izidorf., Del.

JACOBSON
AND COMPANY
241 EAST 45TH STREET
NEW YORK CITY
ESTABLISHED 1891

Complete folio of this series will be sent you on request.

Temple Beth-El
Jersey City, N. J.P. A. Vivartas
Architect

ZENITHERM
A MATERIAL FOR LARGE INTERIORS

Zenitherm lends itself admirably to use in large buildings where the architectural effect is primarily dependent on mural design. The view shown herewith indicates clearly the blend

of dignity and beauty imparted by Zenitherm as a wall material. Zenitherm is weather-proof, fire resistant, lasting, greatly increases acoustic values, and is moderately priced.

Write for descriptive booklet B

Sales Office:
Bowery Savings Bank Bldg.
110 East 42nd Street
New York City

ZENITHERM CO., Inc.
NEWARK, N. J.
AGENCIES IN 30 CITIES

Sales Office:
Michigan-Ohio Building
612 Michigan Avenue
Chicago, Illinois

ZENITHERM
REG. U. S. PAT. OFF.
LOOKS LIKE STONE—WORKS LIKE WOOD

**Lutheran Church of
the Epiphany**

Brooklyn, New York

CHEERY & MATZ, Architects

**Furniture by
DE LONG**

We develop designs for church seating from the architect's sketches; or when he designs the furniture in detail, we execute the work faithfully and well. We also supply objects that are generally needed for the complete equipment of church interiors.



**DE LONG FURNITURE
COMPANY**

Department F

1505 Race Street



Factory: Topton, Pa.

Philadelphia

Gen'l Office: Allentown, Pa.

When Professional Men —All Agree

When architects see no restrictions laid upon their originality and art, when contractors find no difficulty in installation work, when building managers foresee easy leases, when underwriters estimate a surer return—

When professional men all agree, as they do, about Murphy In-a-Dor Beds, there must be exceptional features—both mechanical and economic—about the product.

Murphy In-a-Dor Beds—even the largest of the four standard bed sizes—swing through a standard three foot

door and thus do not affect the appearance of the room. With variety of designs they harmonize, too, with the furnishings.

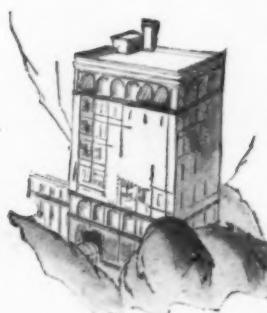
Independent of the door, the Murphy In-a-Dor Bed is easily installed and needs no adjustments later.

Tenants like Murphy In-a-Dor Beds because they are so easily handled, mean more closet space and give spaciousness to a floor area that would otherwise be cut up into small rooms.

Murphy In-a-Dor Beds make possible the building of apartments and homes on conveniently located, close-in, high priced land, thus attracting a substantial tenantry and assuring a ready sale.

Learn more about In-a-Dor Beds

There is only one In-a-Dor Bed—the Murphy. Learn all about it and about the Murphy Co-operative Service. See why the professional men all agree on this building requisite. Write, please, to our office nearest you.



In modest home as well as in palatial apartment the Murphy In-a-Dor Bed creates higher standards of living at lower cost



The Murphy In-a-Dor Bed

MURPHY DOOR BED COMPANY

New York City	19 W. 44th St.	Detroit, Mich.	7th Floor, Kresge Bldg.
Chicago, Ill.	22 W. Monroe St.	Birmingham, Ala.	513 N. 21st St.
Atlanta, Ga.	33 Luckie St.	Cleveland, O.	1140-42 Hanna Bldg.
Seattle, Wash.	Terminal Sales Bldg.	Kansas City, Mo.	1114 Grand Ave.
San Francisco, Calif.	Crocker Bldg.	Dallas, Tex.	1919 Pacific Ave.
Los Angeles, Calif.	1807 S. Main St.	El Paso, Tex.	Neff-Stiles Bldg.
Denver, Colo.	1534 Blake St.	Houston, Tex.	2301 Main St.
St. Petersburg, Fla.	225 Second Ave. S.	New Orleans, La.	318 Dryader St.
Miami, Fla.	224 Columbia Bldg.	Ottawa, Canada	205 O'Connor St.
Tampa, Fla.	220 Warner Bldg.	Montreal	698 St. Catherine St., West
St. Louis, Mo.	315 N. 10th St.		

Performance Squares with Theory in the Halls of Learning

MANY commissions for hall, auditorium and class-room seating have been received by this company from the great institutions of learning of this country. These are convincing testimony from highest engineering authorities to the efficient and practical manner with which our product and policies square with accepted principles of correct and efficient seating. No other form of approval can carry greater weight. The recent installation of seating in the University of Florida is but one of many.

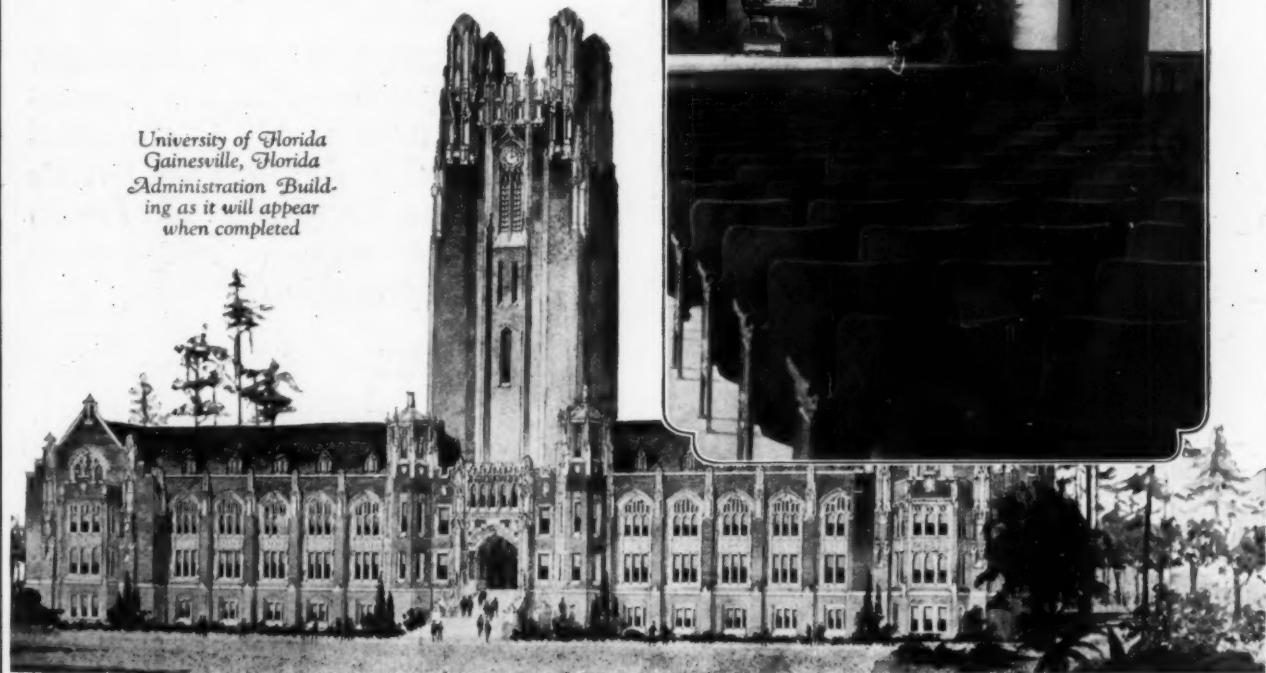
American Seating Company

General Offices

NEW YORK 1094 Lytton Building
620-119 W. 40th St.

BOSTON 79 Canal Street
CHICAGO

University of Florida
Gainesville, Florida
Administration Building as it will appear
when completed



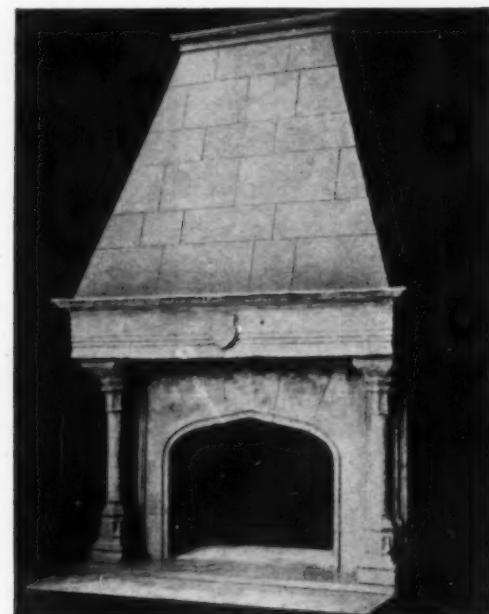
Interior view of
Chapel, University of Florida
Edwards and Sayward, Architects

TODHUNTER
414 Madison Avenue, New York

GIFTS THAT LIVE THE YEAR ROUND

HAND WROUGHT METALWORK

Illustrated folder of 22 Xmas suggestions will be sent upon request



Early English Mantelpiece

Jacobson Mantel & Ornament Company

ARTIFICIAL STONE MANTELS

322-4 East 44th Street, New York

ALSO COMPO ORNAMENTS FOR WOODWORK
LOUIS GEIB ARTHUR P. WINDOLPH

BIRD'S NEPONSET BLACK BUILDING PAPER



Waterproof!

NEPONSET BLACK is a tough, heavy Waterproof Building Paper that keeps out dampness and drafts. Its glistening, asphalt-coated surface sheds water like a duck's back.

For a permanent barrier against the elements, specify Bird's Neponset Black. Over roof boards and under slate, tile, metal or asphalt shingles it makes a watertight covering. When placed back of stucco and under clapboards or shingles it keeps out drafts and dampness and makes the heating of the house more economical.

Your contractor or builder can get Neponset Black at a moment's notice. It is standard stock with dealers in Bird's Building Products. Refer to Sweet's or write to us for complete specifications.

BIRD & SON, inc.

Established 1795
EAST WALPOLE, MASS.

Chicago Office and Plant: 1472 West 76 Street
New York: 295 Fifth Avenue
Canada: Bird & Son, Ltd., Hamilton, Ont.

Manufacturers of

NEPONSET TWIN SHINGLES
PAROID ROOFING
Bird's Asphalt Shingles
Bird's Design Roofing
Bird's Neponset Black Building Paper
Bird's Neponset Rugs and Floor Coverings

REISCHMANN SPECIAL FURNITURE

worthy of the fine buildings
in which it is installed

for Lodge Rooms, Fraternal Organizations, Club Rooms, Y. M. C. A.'s, Public Institutions, Hotels, School and Colleges.

The prestige of Reischmann Installations grows more secure with every important building for which Reischmann Furniture is produced. Sixty-four years of experience are your assurance of unvarying quality.

Complete installations are created from our own designs, or in accordance with architects' specifications. There is also a large variety of stock models from which practical selections can be made.

Write for Catalog "AF"



Writing Desk



Magazine Rack



Bulletin Board

RECENT INSTALLATIONS

Mecca Temple, New York

K. of C., Brooklyn

Atlantic City Elks

McKinley Lodge, F. & A. M.

Queensboro Elks, Brooklyn

Flushing Y. M. C. A.

Scottish Rite Temple

Highland Park, Brooklyn, Y. M. C. A.

W. Reischmann & Sons
inc.

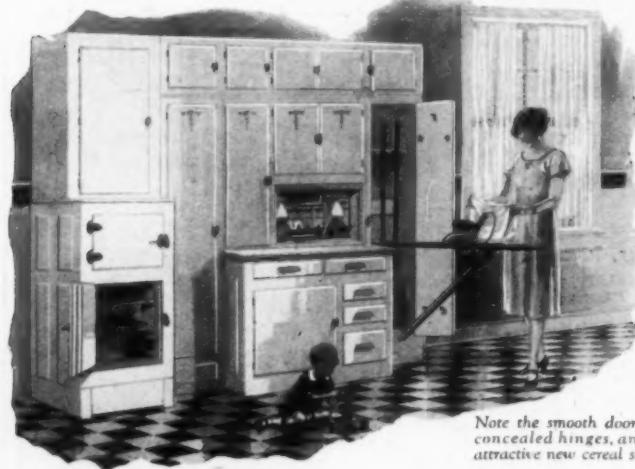
135th St. and Willow Ave.

New York

Furniture Manufacturers since 1863

KITCHEN MAID

STANDARD KITCHEN UNITS



**Solved—
the problem of convenience
in limited kitchen space!**

No matter how limited in space, modern kitchens can have convenience that will win the praise of every woman. Compact Kitchen Maid Units provide all the storage and working space a woman needs. They are scientifically designed and built by specialists in kitchen equipment.

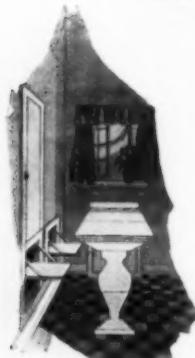
These harmonized units cover every use—from kitchen cabinet to refrigerator, from disappearing "breakfast nook" and folding ironing board to linen cupboards, from sink and range to broom and dish closets. Each unit is complete in itself—can be used alone or in combination with other units.

Kitchen Maid Units alone provide the added cleanliness of rounded inside corners and smooth doors. Only these units can offer Kitchen Maid construction, beauty and efficiency. Yet Kitchen Maid Units cost no more installed than old-fashioned cupboards.

For the satisfaction of your client and his customers, specify Kitchen Maid Units in your kitchen plans. Mail coupon for catalogue, dimensional drawings and prices.

WASMUTH-ENDICOTT COMPANY

1812 Snowden Street, Andrews, Indiana



*The
Pulmanook*

Consists of table and
two or four chairs.
Folds easily and quickly
into wall

"Let the Kitchen Maid
Be Your Kitchen Aid"
KITCHEN MAID
STANDARD UNIT SYSTEMS

WASMUTH-ENDICOTT CO.
1812 Snowden St., Andrews, Ind.
If in Canada, Address Branch Office, Waterloo, Ont.

Please send catalogue and full information about
Kitchen Maid Units to:

Name _____

Address _____

City _____

State _____

Kitchen Maid Equipment Used in All Model Homes Built by Home Owners Service Institute



WARMAN AND COOK

Designers and Manufacturers

WORKERS IN METALS LIGHTING FIXTURES

GOTHIC CHURCH LIGHTING IN HAND WROUGHT IRON

HOME FIXTURES OF DISTINCTION

Telephone
Caledonia 4204

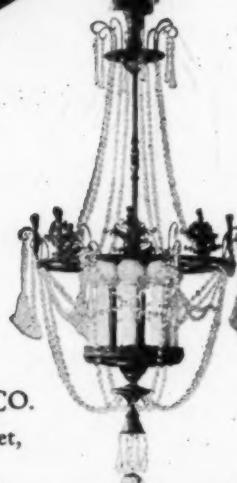
209 East 39th Street
New York City

BEARDSLEE

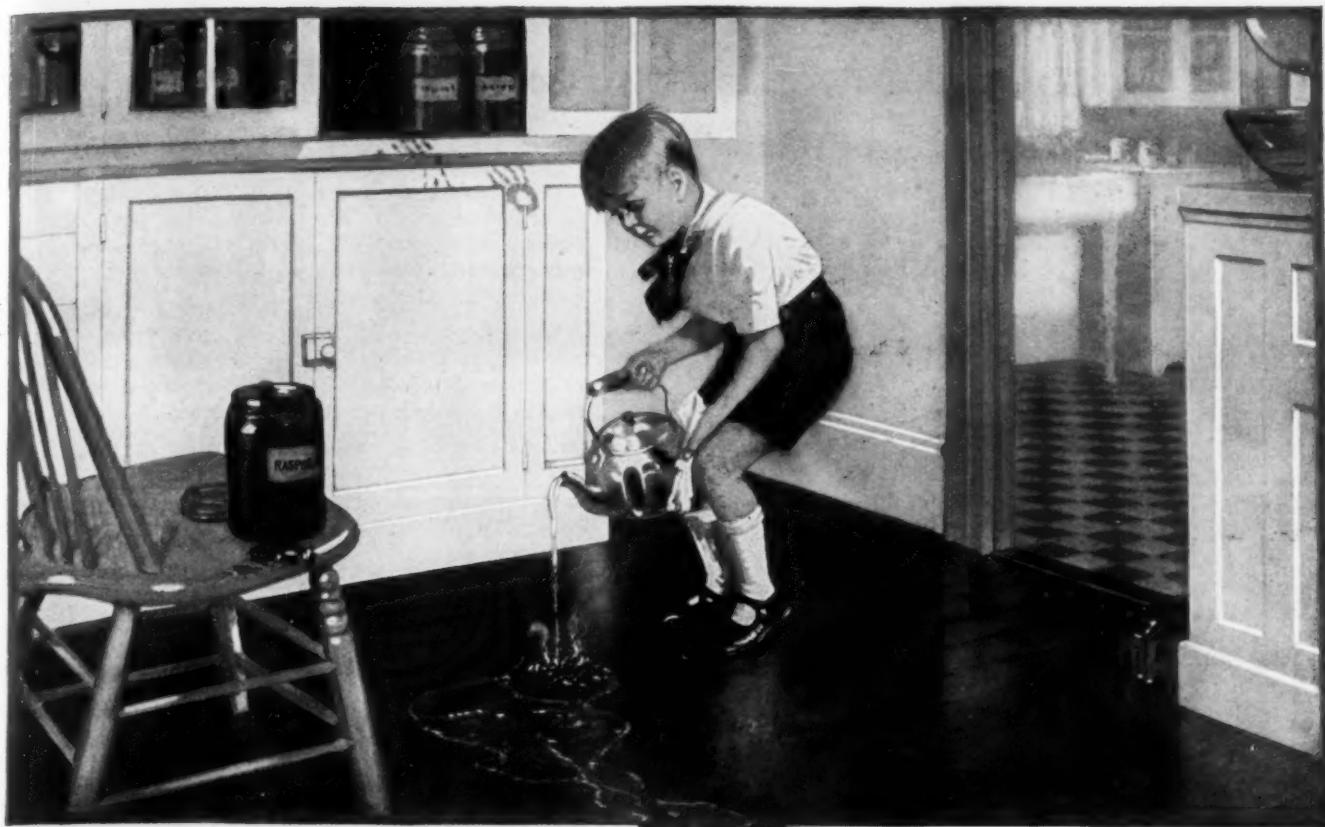
*The NAME TO
REMEMBER
when
SELECTING
LIGHTING
EQUIPMENT*



Design
No. C25-74



**BEARDSLEE
CHANDELIER MFG. CO.**
210 South Jefferson Street,
CHICAGO



"He spilled the jam and destroyed the evidence—but not the Valspar!"

To preserve the appearance of lovely homes—Valspar!

YOUR clients will appreciate Valspar's waterproofness and durability—especially when accidents occur—for Valspar withstands exceptional as well as ordinary household service with dependable faithfulness. Indoors and out, it is proof against spilled liquids and common everyday accidents. And it never turns white!

Clear Valspar—transparent, colorless, quick-drying—enhances and protects the original beauty of any wood or metal surface to which it is applied.

Valspar Varnish-Stains—Clear Valspar plus transparent, natural wood-stains—intensify all the beauty and character in the natural wood.

And Valspar-Enamels—high-grade, solid-covering pigments combined with clear Valspar—offer a great variety of decorative tints and shades, which may be mixed to obtain any number of additional and intermediate tones.

Valspar, clear and in colors, has a naturally high, durable polish. It can, however, be rubbed down to wax-like luster or dull mat finish if desired—without losing any of its remarkable toughness and durability.

Specify Varnish satisfaction—with Valspar

VALENTINE & COMPANY

Established 1832

Largest manufacturers of
high-grade varnishes
in the world

VALENTINE'S
VALSPAR
The Varnish That Won't Turn White

VALENTINE & COMPANY

New York Chicago Boston
Toronto Paris London
Amsterdam

W. P. Fuller & Co., Pacific Coast



AMONG the many decorative features which contribute to the interior beauty of the home, none have such permanent characteristics as those surfaces grouped under the term "inside trim."

Wall decorations, draperies, and furnishings are influenced more or less by styles in decoration. But the fireplace, the stairway, the doors, the windows, are not only permanent in design but should be permanent in finish as well. They are a part of the house.

No wonder then that Ripolin, because of its qualities of beauty and endurance, is so universally specified by architects for the finishing of these permanent features in American as well as European homes.

for Inside Trim

RIPOLIN

THE ORIGINAL HOLLAND ENAMEL PAINT

for Outside Trim

AND the exterior trim, the stately pillars, the attractive pilasters and doorways—all beautiful in their architectural design—demand even greater protection than similar interior surfaces—and surely no less in beauty of finish.

The incentive for this more adequate protection and refined quality of decoration brought Ripolin into the field of exterior decoration more than forty years ago, when this "Original Holland Enamel" was first discovered—and "over there" as well as in America the use of this better finish has proven its economy. Is it any wonder that architects are so frequently using Ripolin for exterior purposes?

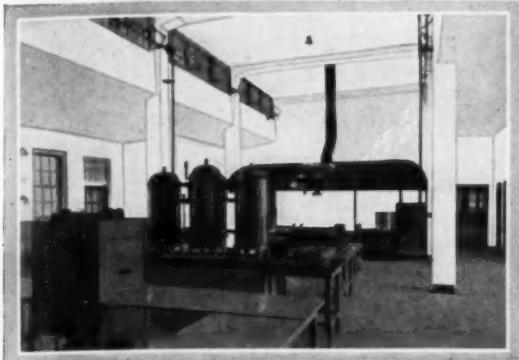


The GLIDDEN Companies

The greatest job an organization has is to consistently satisfy its customers. We've grown from one to thirteen factories. We must have done our job pretty well. Anyway, we are very thankful for the loyalty our customers have shown us.

Adrian J. Glidden
President

Adams & Elting Company
Chicago
The American Paint Works
New Orleans
T. L. Blood & Company
St. Paul
Campbell Paint & Varnish Company
St. Louis
The Forest City Paint & Varnish Co.
Cleveland
The Glidden Company
Cleveland
The Glidden Company of California
San Francisco
Heath & Milligan Mfg. Company
Chicago
Nubian Paint & Varnish Company
Chicago
Twin City Varnish Company
St. Paul
The A. Wilhelm Company
Reading
In Canada:
The Glidden Co., Ltd., Toronto, Ont.



For a spotless, sanitary finish on walls and woodwork of kitchens, lavatories, laundries, etc., Barreled Sunlight Gloss has proven its superiority. Washes like tile, and doesn't wear away.



For walls, ceilings, and woodwork where conditions require less than a full Gloss finish, Barreled Sunlight Semi-Gloss offers adequate light and durable good looks. Almost as washable as the Gloss.

Durable paint beauty throughout with this famous interior finish

in Gloss, Semi-Gloss and Flat—
White, or easily tinted

THERE was a pleasing response from the friends of Barreled Sunlight when we recently presented this famous enamel-like paint in *three different finishes*.

In hundreds of fine buildings where Barreled Sunlight Gloss has been for years an established favorite, the Semi-Gloss and Flat finishes are now welcomed for other interior jobs, either in the pure white or in tint. Being an all-oil product, Barreled Sunlight is easy to tint any desired shade with colors-in-oil.

Barreled Sunlight, containing no varnish, flows on freely with brush or spray.

When used in the pure white, Barreled Sunlight resists for years the yellowing tendency common to so many white paints and enamels—an advantage due to the exclusive Rice Process of manufacture.

Sold in 55- and 30-gallon churn-equipped steel drums, and in cans from $\frac{1}{2}$ pint to 5 gallons. Where more than one coat is required, use Barreled Sunlight Undercoat first.

See our complete catalogue in Sweet's Architectural or Engineering Catalogue. Note coupon.

U. S. GUTTA PERCHA PAINT CO.
Factory and Main Offices

3 Dudley Street, Providence, R. I.
New York—350 Madison Avenue
Chicago—659 Washington Blvd.
San Francisco—156 Eddy Street
Distributors in all principal cities

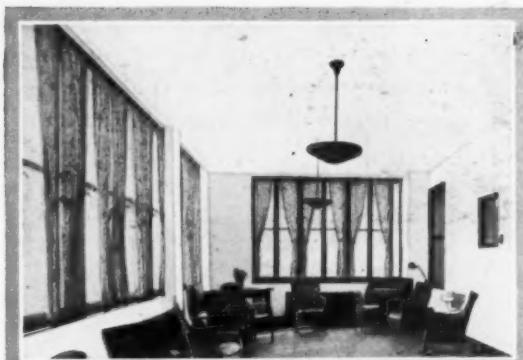
Barreled Sunlight is so handsome it replaces the finest enamel. It costs less, and is so opaque that fewer coats are required.

There is also a real saving in the labor of application, for

Barreled Sunlight

Reg. U. S.

Pat. Off.



For well-lighted rooms, lounges, lobbies, where "flat" effects are sometimes desired, nothing is more suitable than Barreled Sunlight Flat. Handsome and washable—though naturally less durable than Gloss or Semi-Gloss.

By simply mixing colors-in-oil with Barreled Sunlight white, the painter on the job can easily obtain any desired shade. In quantities of 5 gallons or over we tint on order at the factory, without extra charge. For tinting small quantities our dealers carry handy tubes of Barreled Sunlight tinting colors.



U. S. GUTTA PERCHA PAINT CO.,
3 Dudley Street, Providence, R. I.

Please send me your booklet "3 Questions Answered" including specifications, and a panel painted with Barreled Sunlight. I am interested in the finish checked here—

Gloss () Semi-Gloss () Flat ().

Name.....

Street.....

City..... State.....

The Permanent Protection of Fine Architectural Interiors

HAVE N'T you often wished that the original beauty of the interiors of your jobs would always be bright and attractive? Wouldn't it be a treat to walk into a building a score or more years after its completion and find the original finish still lustrous and the colors still bright? Wouldn't it give you a feeling of satisfaction to know that the surface under the finish is still as sound as the day it became a part of the building?

There is a way to secure permanent protection for fine architectural interiors other than the expensive method of refinishing every few years. The initial application of non-oxidizing, chemically stable finishing materials will provide maximum protection over a long period of time.

Zapon O B S Lacquers and Lacquer Enamels differ from ordinary oil base finishing materials in both their chemical and physical properties. Oil base materials dry slowly by the process of oxidation and remain chemically ac-

tive until the film becomes brittle and deteriorates. The film produced by Zapon O B S materials dries in about two hours, due to the evaporation of the solvent, and remains chemically stable.

A Zapon O B S Lacquer or Lacquer Enamel finish is hard, exceedingly tough and sufficiently flexible to expand and contract with temperature changes. Ordinary acid or alkaline solutions have no effect upon it. Water cannot injure it.

The appearance of a Zapon O B S Lacquer finish is always attractive for the reason that, being chemically stable, it does not lose its lustre with age. The colors are permanent and will not fade.

Zapon O B S Lacquer Finishes are quite economical. They may be obtained by either brushing or spraying. They can be applied speedily, thus cutting down costs. The cost of maintenance is small as there is no necessity for refinishing for a considerable period of time.

A booklet containing a complete description of O B S Lacquers and Lacquer Enamels, together with specifications formulated from practical application on various types of surfaces will be sent, free of charge, to any architect, builder or decorator upon request.

THE ZAPON COMPANY 247 Park Avenue, New York City

BRANCHES:

Chicago . . . 45th and LaSalle Sts.
Cleveland . . . 8810 Bessemer Ave.
New York . . . 547 Greenwich St.

Detroit . . . Congress and Griswold Sts.
Los Angeles . . . 1214 Venice Boulevard
San Francisco . . .

New Haven . . . 185 Church St.
Oakland . . . 304 Twelfth St.
160 Seventh Street

ODORLESS
BRUSHING
& SPRAYING



LACQUERS
& LACQUER
ENAMELS

ZAPON
The pioneer lacquer finish

"The Murphy Varnish Company once told me that it was not its ambition to have the largest varnish business in the world, but to be sure that wherever the name Murphy appears upon a can of varnish, or any other

finish, that name would stand for a good job faithfully done and fully delivered. If that way of doing things should lead to the largest varnish business in the world, well and good, but not on any other terms."

NOW YOU CAN *harmonize the radiator* WITH THE DECORATIVE SCHEME

Murphy Brushing Lacquer makes a good durable radiator finish.

This is interesting and important to the painter, the architect and the interior decorator because this new material comes in a sufficiently wide range of colors to fit into any scheme of decoration.

Heating engineers further vouch for the fact that the lighter colors which Murphy Brushing Lacquer puts within your reach permit more heat radiation than the metallic aluminum and bronze paints now in common use.

Murphy Brushing Lacquer has all the advantages of the lacquer type of finish, quick drying, resistance to heat and cold, water and steam. The colors are non-fading and the white resists the tendency to turn yellow more successfully than most white enamels.

Recommend Murphy Brushing Lacquer for radiators. A color card will be sent you gladly at your request.

Murphy BRUSHING Lacquer



MURPHY VARNISH COMPANY
NEWARK · CHICAGO · SAN FRANCISCO · MONTREAL



Egyptian Lacquer for Interior Woodwork

WHILE the use of Egyptian Lacquers for interior wood-work is a new application, the material itself has been known to the industrial finishing field for a half century.

It is reasonable to assume that during our fifty years' of lacquer manufacturing experience we have gained knowledge that enables us to turn out a product of unquestioned merit.

May we tell you how Egyptian Lacquers may be used to advantage in your work?

The Egyptian Lacquer Mfg. Co.,

90 West Street. New York



Interesting Interiors

By M. REA PAUL, Consulting Colorist

Sixth of a series of articles discussing practical uses of the newer wall finishes obtainable with Dutch Boy white-lead and Dutch Boy flatting oil

The Sponge- Mottled Finish

ONE of the advantages of the Sponge-Mottled Finish is its wide adaptability. Almost any room may be decorated successfully in this finish, whether it is used as an all-over treatment or in panels. In the case of panels there should usually be greater contrast between the colors selected than when an all-over pattern is employed. While almost any number of colors may be used, one or two in addition to the ground coat will ordinarily be found sufficient to produce a decidedly interesting effect.

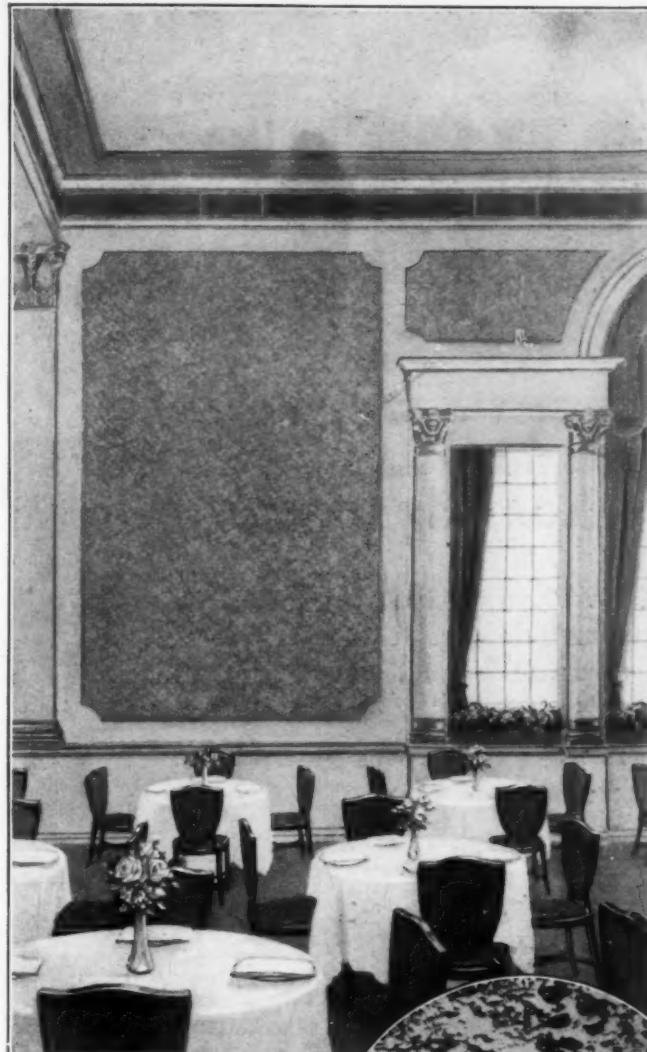
Either the undercoat or the mottling color may predominate in the Sponge-Mottled Finish. The amount of tamping on a unit of surface regulates to a large extent how much of the undercoat color will show.

The mottling color is usually applied in a haphazard manner with no attempt to secure a regular pattern, altho a regular pattern is occasionally used with very satisfactory results. As a rule, the haphazard mottling will prove more satisfactory for the reason that a great deal of the charm of the Sponge-Mottled Finish lies in its irregular pattern.

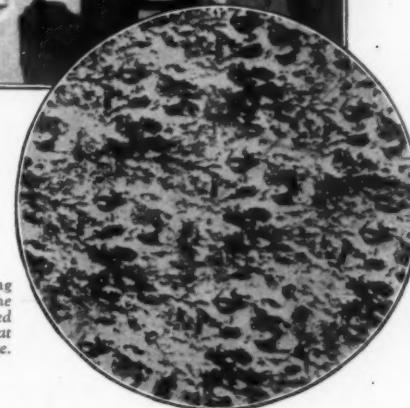
Suggestions for its use

In addition to the formal dining room shown here, the Sponge-Mottled Finish may be employed successfully in the following rooms, with the suggested color treatments:

Ground Color	Mottling Co'or
Medium Brown	Golden Yellow
Cold Gray	Rose
Red Buff	Light Red Buff
Soft Grayed Green	Light Cream Yellow
Warm Gray	Light Yellow
Dark Blue	Gray
Corn Yellow	Tan
Tan	Blue Green
Buff	Cream
Yellow Buff	Light Golden Yellow
Shell Pink	Light Gray



Formal dining room of a hotel showing the Sponge-Mottled Finish employed in panels. Reproduced from the booklet "Decorative Possibilities of Paint." Write our nearest branch for copy.



To the right, close-up showing the charming irregularity of the Sponge-Mottled Finish, secured by tamping on a finishing coat with the flat side of a sponge.

Booklet on Distinctive Finishes

Complete directions and formulas for producing the Sponge-Mottled Finish are contained in a new booklet in color, "Decorative Possibilities of Paint." In it are also instructions for obtaining many other interesting finishes with Dutch Boy white-lead and Dutch Boy flatting oil. A copy of this booklet will be sent upon request.



NATIONAL LEAD COMPANY

New York, 111 Broadway

Boston, 131 State Street

Buffalo, 116 Oak Street

Chicago, 900 West 18th Street

Pittsburgh, National Lead & Oil Co. of Penna., 316 Fourth Avenue

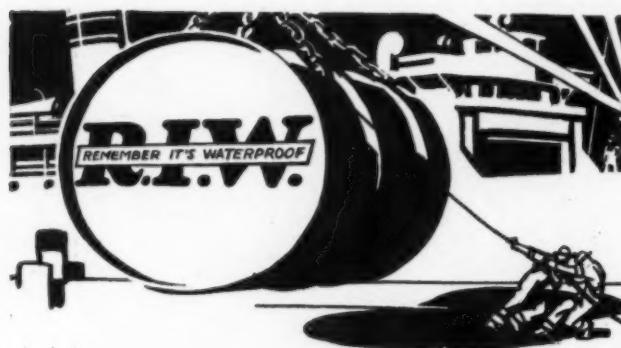
Cincinnati 659 Freeman Avenue

Cleveland, 820 West Superior Avenue

St. Louis, 722 Chestnut Street

San Francisco, 485 California Street

Philadelphia, John T. Lewis & Bros. Co., 437 Chestnut Street



INDUSTRY'S IMPREGNABLE DEFENSE AGAINST DECAY

"R.I.W." products are a guard, an impregnable defense, ranged between Industry's millions of invested capital and the driving forces of blind destruction.

Throughout the world, whether on the steel frame of a Manhattan skyscraper, the machinery of a sugar mill in Cuba, or a foundation embedded in oozing shale, an "R.I.W." protective coating bears the brunt of slashing rain, damp rot, biting acids, and blistering sun.

Whatever Industry's problems, no matter how exacting its test, these technical paints, varnishes and waterproofing compounds, meet every requirement—their value gauged in super-protection, money saved, usefulness unimpaired.

New problems demanding special remedies are continually being solved by "R.I.W." Engineers. If, in the wide range of "R.I.W." products there is not one that meets your specific needs, special research will evolve it for you.

Consult Sweet's Catalog
for Specifications

TOCH BROTHERS

Established 1848

Technical
Paints

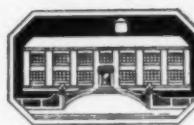


Waterproofing
Compounds

443 FOURTH AVENUE • NEW YORK

Remember It's Waterproof

ALUMINUM



The New Industrial Paint

ARCHITECTS, especially those whose major interest is along industrial lines, will find our booklet—"Aluminum Paint—A Step Ahead in Industrial Painting"—interesting, informative and suggestive. A copy will be sent on request.



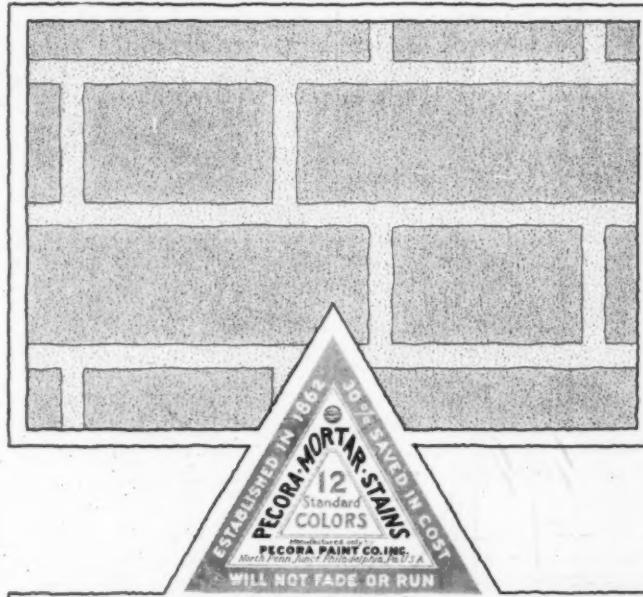
Aluminum Company of America

2412 Oliver Building, Pittsburgh, Pa.

Offices in 18 Principal American Cities

ALBANY, N. Y.	CLEVELAND, OHIO	KANSAS CITY, MO.	PHILADELPHIA, PA.
BOSTON, MASS.	DAYTON, OHIO	NEW HAVEN, CONN.	PITTSBURGH, PA.
BUFFALO, N. Y.	DETROIT, MICH.	NEWARK, N. J.	SAN FRANCISCO, CAL.
CHICAGO, ILL.	INDIANAPOLIS, IND.	NEW YORK, N. Y.	ST. LOUIS, MO.
	TOLEDO, OHIO		WASHINGTON, D. C.

Aluminum Company of Canada, Ltd., Toronto, Montreal, Canada
ALUMINUM IN EVERY COMMERCIAL FORM.



PECORA MORTAR STAINS

are made by an establishment that has been serving architects for over 60 years

12 STANDARD UNFADING COLORS

Information on Request

PECORA PAINT COMPANY

4th St. & Sedgley Ave., Philadelphia, Pa.

Established 1862 by Smith Bowen

Incorporated, 1911

*The woodwork in the new Hotel Sherman
is preserved and beautified with*

"38"
PRESERVATIVE
VARNISH

THE new Sherman is another of the Chicago hotels which has attained a position of distinction among the popular hostelleries in the country. One of the interesting features are the public rooms finished in different periods. They are unique in their conception and have an appealing charm.

"38" Preservative Varnish is used on all the wood-work in this attractive hotel. For many years to come this varnish will enhance its beauty without the necessity of refinishing. Made for the very highest type of interior trim, "38" Preservative Varnish is naturally selected for buildings of importance — structures that are monuments to the architects and contractors.



Holabird & Roche, Archts.

J. B. Nuelle Company, Ptg. Contrs.

There are Pratt & Lambert Varnish Products for every finishing requirement — materials to meet every specification for coating all interior and exterior surfaces. For over three-quarters of a century, discriminating architects in the United States and Canada have recognized their dependability and specified their use on the finest work.

May the Pratt & Lambert Architectural Service Department help you solve your finishing problems? Its members will be pleased to assist you. Write to Pratt & Lambert Inc., 122 Tonawanda St., Buffalo, N. Y. Canadian Address: 34 Courtwright St., Bridgeburg, Ontario.

"Save the surface and
you save all" *Pratt & Lambert*

PRATT & LAMBERT VARNISH PRODUCTS

Vitralite The Long-Life Enamel

Made in the gloss and eggshell and is available in white and six attractive tints. It produces a porcelain-like finish of rare beauty, and is so durable that it is guaranteed for three years inside or outside. It is specified by architects on modest homes and large city buildings.

why 100% PURE VARNISH?



because -

FOSSIL GUMS when used in varnish have excellent linseed oil absorbing and amalgamating powers, and form a hard, tough, durable and elastic film.

Substitutes for fossil gums are rosin or ester gum (treated rosin).

LINSEED OIL dries, by the absorption of oxygen, to a most elastic and durable film.

CHINA WOOD OIL is the most water-resisting oil commonly used in Varnish manufacture.

When combined with linseed oil and fossil gums in the proper proportion it makes a Varnish film more waterproof.

TURPENTINE is the most satisfactory solvent and thinner for a long-oil fossil gum Varnish. It dries partly by absorbing oxygen from the air, and in the drying of Varnish the film of vegetable origin thus created, readily combines with the film of fossil gum and oil (both of vegetable origin).

Mineral spirits (naphtha, benzine, kerosene and gasoline), all distilled from petroleum, evaporate rapidly and completely and do not benefit the Varnish film.

Know what you buy

100% PURE

FLOOR & WALL

NO BENZINE - NO ROSIN

Making Known the Facts About Douglas Fir Lumber Products

Correctly Seasoned

The Long-Bell dry kilns at Longview, Washington, are of the latest design, having the largest capacity in the Pacific Northwest, and the kiln drying is scientifically controlled, which assures properly seasoned lumber.

Edge Grain

Rift sawed or edge grain stock is most serviceable. The amount of edge grain stock produced in Douglas Fir lumber is many times that obtainable in other commercial softwoods.



Trade-Marked

Long-Bell Douglas Fir lumber and timbers are trade-marked for identification of unusual thoroughness in manufacture—plus more than fifty years' experience as lumbermen.

Heartwood

Heartwood is matured wood, dependable and enduring. A greater percentage of heartwood is obtained in Douglas Fir lumber than in any other commercial softwood . . . more than 78 percent of the entire production of Long-Bell trade-marked Douglas Fir lumber is all heart.

Straight Lumber

Long-Bell trade-marked Douglas Fir lumber is stacked flat, seasoned flat and stays flat.

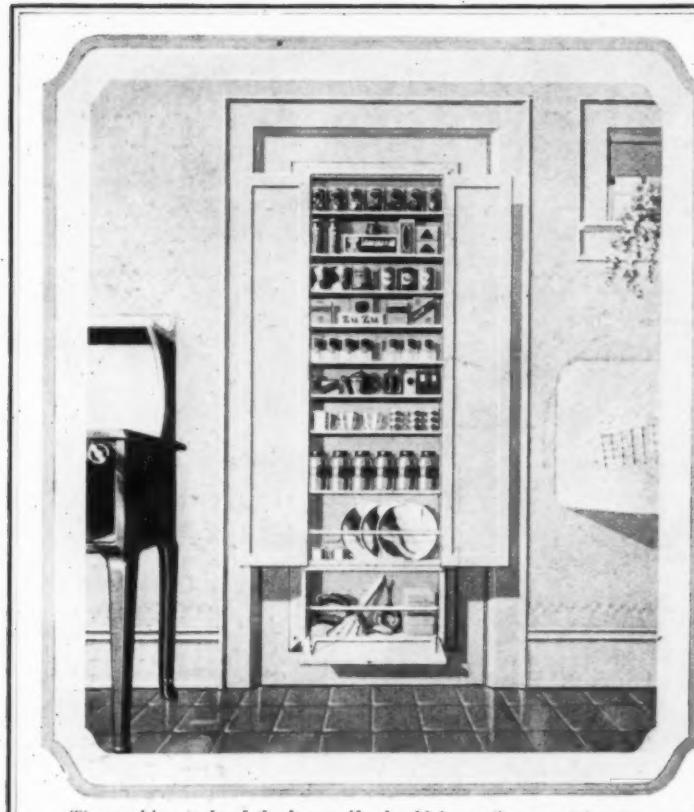
THE LONG-BELL LUMBER COMPANY

R. A. Long Building Lumbermen Since 1875 Kansas City, Mo.

Long-Bell
Marked LUMBER

Douglas Fir Lumber and Timbers; Douglas Fir Window Frames; Western Hemlock Lumber; Southern Pine Lumber and Timbers; Creosoted Lumber, Timbers, Posts, Poles, Ties, Guard-Rail Posts, Piling; Southern Hardwood Lumber and Timbers; Oak Flooring; California White Pine Lumber; Sash and Doors; Box Shooks.

K N O W T H E L U M B E R Y O U B U Y



The working tools of the housewife should be easily accessible. How convenient it is to have a place within arm's reach of the stove and sink for the kitchen utensils, etc., used in the preparation of meals. This cabinet takes the place of the always unsightly kitchen shelf. It is sanitary, and up off the floor and therefore does not interfere with the daily cleaning.

PAIN HANGING CLOSET

Need Economy of space is demanded in all types of modern constructed homes, apartments, hotels and other buildings. Full advantage must be taken of all the conveniences to insure easy and efficient operation, especially during the present day servant problem.

The Paine Hanging Closet solves the problem of sufficient closet and storage room and utilizes space not ordinarily used.

Purpose The Paine Hanging Closet is an all-purpose cabinet and can be used to equal advantage in the Kitchen, Bathroom, Bedroom or Den. This cabinet will lessen steps and work and assist in the ease and efficiency of operation of the household to an extent comparable to the vacuum cleaner and the other modern conveniences.

Construction This cabinet is made in one size: Width inside 19", height 68", depth 5 $\frac{1}{4}$ ". The back is a three-ply panel. It is attached with a hanging moulding that is nailed to cabinet and screwed to wall. For 2-4 doors and narrower, moulding is applied only to the top and bottom of closet.

Specifications It is made of Basswood, one of the lightest of the commercial woods, and on account of its light weight can be hung or attached where desired. Basswood has a fine, tight grain and soft texture, takes paint and enamel perfectly and accepts and retains a smooth finish.

Facilities The Paine Hanging Closet is of strictly cabinet construction and is built and guaranteed by an organization that controls their supply of Basswood and operates with facilities without a parallel in the woodworking industry. They have pioneered in introducing new designs of doors and interior finishings for the convenience of the home.

Value The sale or rental value of a building is now very largely determined by the up-to-dateness not only of its design and arrangement but by the extent, location and type of the conveniences. A moderate investment in new and unusual features will bring returns many fold over their cost.

PAIN LUMBER COMPANY, Ltd.
OSHKOSH, WISCONSIN

"CHURCH BUILDING"—By Ralph Adams Cram (A NEW AND REVISED EDITION)

THE improvement which has accompanied the progress of American architecture during recent years has been no more marked in any department than in that of an ecclesiastical nature. This has been due primarily to the rise of a few architects who by travel and study have acquired much of the point of view from which worked the builders of the beautiful structures which during the fourteenth century and the fifteenth were being built over all of Europe.

These architects have closely studied the churches, chapels, convents and other similar buildings in England, France, Spain and elsewhere, and the result has been a number of American churches of an excellence so marked that they have influenced ecclesiastical architecture in general and have led a distinct advance toward a vastly better standard. This improvement has not been exclusively in the matter of design, for plans of older buildings have been adapted to present-day needs, and old forms have been applied to purposes which are wholly new.



THE appearance of a new and revised edition of a work which is by far the best in its field records this progress. Mr. Cram, being perhaps the leader among the architects who have led this advance, is himself the one individual best qualified to write regarding the betterment of ecclesiastical architecture. The editions of this work of 1900 and 1914, which have for some time been out of print, have now been considerably revised and much entirely new matter has been added,

which in view of the change which has come over ecclesiastical building of every nature is both significant and helpful.

Illustrations used in this new edition of "Church Building" show the best of recent work—views of churches and chapels large and small, in town and country, buildings rich in material and design and others plain to the point of severity, with the sole ornament in the use of fine proportions and correct lines. Part of the work deals with the accessories of the churches and their worship.

345 pages, 6 x 9 inches, Price \$7.50

ROGERS & MANSON COMPANY, 383 Madison Avenue, New York



Toledo, Ohio, Museum
Edward B. Green & Sons, Inc., Buffalo, Architects



Park Ave. Apartments Bldgs., New York City
Warren & Wetmore, New York, Architects



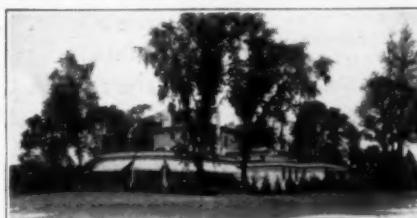
Ambassador Hotel, New York City
Warren & Wetmore, N. Y. Architects



Residence of Mrs. J. F. Keator, Germantown, Pa.
Edwin G. Brumbaugh, Architect



Buffalo Athletic Club
Edward B. Green & Sons, Inc., Architects



Evergreen Farms, Philadelphia, Pa.
R. E. White, Philadelphia, Architect

Why Ritter Oak Flooring was specified for all these buildings

ARCHITECTS who have been repeatedly disappointed with the results obtained from other brands of Oak flooring have become continuous users of Ritter Appalachian Oak Flooring after once trying it.

The reasons for the popularity of Ritter Appalachian Oak Flooring are the excellent quality of the timber from which it is made, due to the favorable growth conditions, and the superior methods and machinery employed in its manufacture and grading.

Ritter Appalachian Oak Flooring possesses all that you seek in Oak floor beauty — fine, subdued grain, uniform

texture and faultless match. You will be assured satisfactory results by specifying it and insisting on its use.

The savings in time, labor and material in laying, nailing and finishing Ritter Flooring more than offset any slight difference in its initial cost.

Complete information gladly furnished to architects on request.

The same qualities which are so characteristic of Ritter Appalachian Oak Flooring also make Ritter Appalachian Oak Lumber superior for interior trim.

W. M. RITTER LUMBER COMPANY
Appalachian Lumbermen since 1890
Dept. F, General Offices: Columbus, Ohio

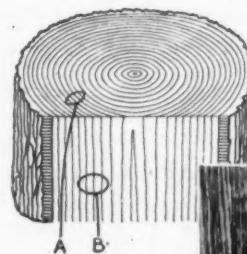
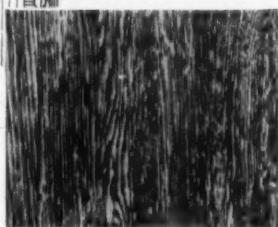


Fig. 1



Slow growth which depends on favorable climate, soil and drainage, causes the close annual growth rings (A), which, in turn, produce the fine, even grain (B), typical of all Ritter Appalachian Oak Flooring (Fig. 1), the use of which assures the most beautiful Oak floors.

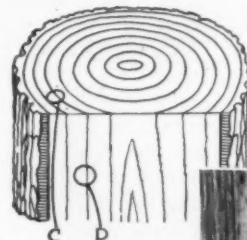
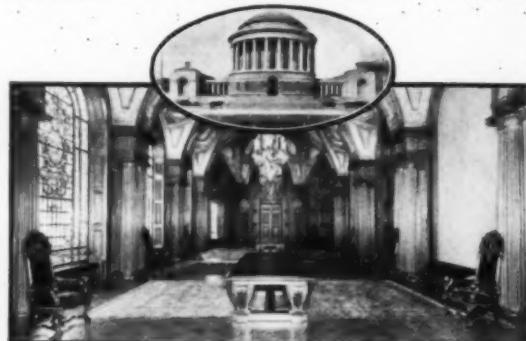


Fig. 2



Fast-growing Oak results in the wide annual growth rings (C), which, in turn, produce the coarse grain (D). Fig. 2 shows a panel of flooring made from rapid-growing Oak. Such flooring lacks the elegance and charm typical of Ritter Appalachian Oak Flooring which is manufactured exclusively from slow-growing Appalachian Highland Oak timber.

STABILIZED BY KOLL LOCK-JOINT COLUMNS



Elks Memorial, 2750 Lakeview Avenue, Chicago
Tracy Swartout, Architect; Hegeman-Harris, Builders

THREE is probably no finer building in all the world than the new \$3,000,000 Elks Memorial.

We consider it a compliment to Hartmann-Sanders that the builders, Mathews Mfg. Co., should select patented Koll Lock-Joint Columns as a prominent feature of the principal room of this classic building. The columns are of quarter-sawed white oak 16"x10' in size.

Whether you require fine interior or exterior work, Hartmann-Sanders craftsmen can give fullest expression to your artistic conceptions.

Catalogs of Koll Lock-Joint Columns, Entrances, or Garden Equipment gladly sent on request. Hartmann-Sanders Co., 2151 Elston Avenue, Chicago, Eastern office and salesroom, 6 East 39th Street, New York City.

HARTMANN-SANDERS

Pergolas
Rose Arbors
Garden
Equipment



Colonial
Entrances
Koll
Columns

190.



DOORWAYS of the OLD BAY STATE

HERE is a Curtis entrance inspired by many of the old Massachusetts doorways. Note the slender, graceful columns; the subtle curve of the spandrel; the fan-light transom, with well proportioned side-lights; and the typical six-panel Colonial door with raised panels.

All these details are offered as a unit by Curtis. The wood is white pine and the entrance is made for any type of wall construction. The Curtis Catalog is full of equally interesting designs. Curtis Companies Service Bureau, 465 Curtis Bldg., Clinton, Iowa.

1866
CURTIS
WOODWORK

Promoting and Financing Coöperative Apartment Buildings

*A Statement of the Forms and Methods
Approved by the Coöperative Apartment
Section, National Association of Real
Estate Boards, with Complete
Sample Documents*

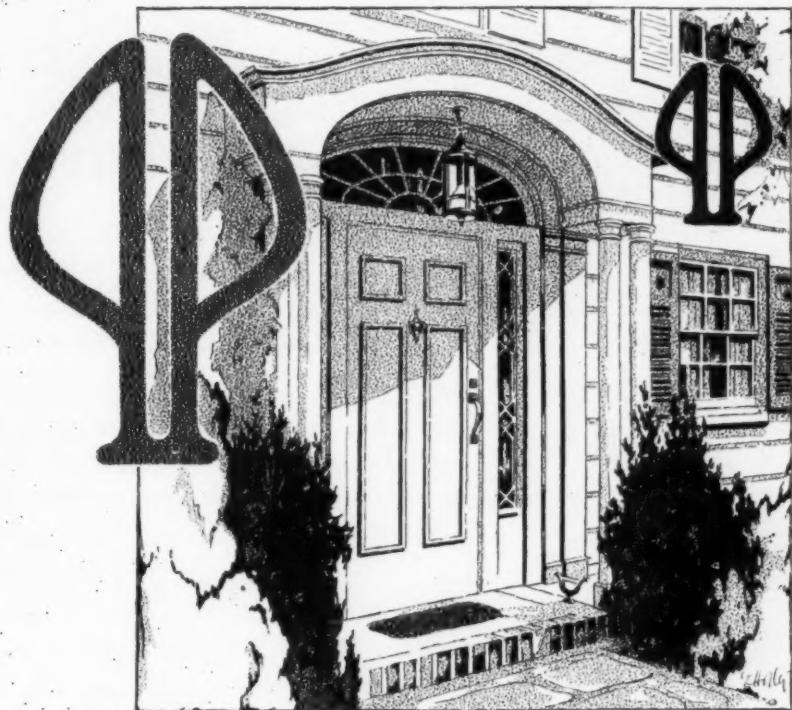
Coöperative apartment buildings, already proceeding upon a considerable scale in different parts of the country, would be far more general had there been during the past few years any recognized source of general information upon the subject. Each time THE FORUM'S pages have contained an article upon some particular phase of the matter, letters of inquiry have been received at THE FORUM'S offices which amply proved the need of a volume which would sum up and present a review of the theory and practice of the coöperative apartment house movement, the practical value of which has now been widely demonstrated.

Coöperative apartment buildings, already proceeding upon a considerable scale in different parts of the country, would be far more general had there been during the past few years any recognized source of general information upon the subject. Each time THE FORUM'S pages have contained an article upon some particular phase of the matter, letters of inquiry have been received at THE FORUM'S offices which amply proved the need of a volume which would sum up and present a review of the theory and practice of the coöperative apartment house movement, the practical value of which has now been widely demonstrated.

Coöperative apartment buildings, already proceeding upon a considerable scale in different parts of the country, would be far more general had there been during the past few years any recognized source of general information upon the subject. Each time THE FORUM'S pages have contained an article upon some particular phase of the matter, letters of inquiry have been received at THE FORUM'S offices which amply proved the need of a volume which would sum up and present a review of the theory and practice of the coöperative apartment house movement, the practical value of which has now been widely demonstrated.

Price \$20

ROGERS & MANSON COMPANY
383 MADISON AVENUE NEW YORK



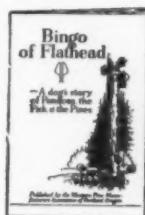
To realize the beauty that you plan specify Pondosa Pine

Charming entrances and lasting doors! Unblemished surbases, moulding, window frames and sash! Delightful newel post and balusters that gracefully mount wide winding stairs! These are assured when you specify Pondosa, the beautiful, versatile pine. Sovereign of softwoods! Dependable, light, strong, easily worked—and most certainly economical. For siding, porches or wher-ever wood is to be used, specify Pondosa, Pick o' the Pines.

Every trade-marked stick is rigidly *graded*, thoroughly *sea-soned* and carefully *milled*. It comes ready for use.

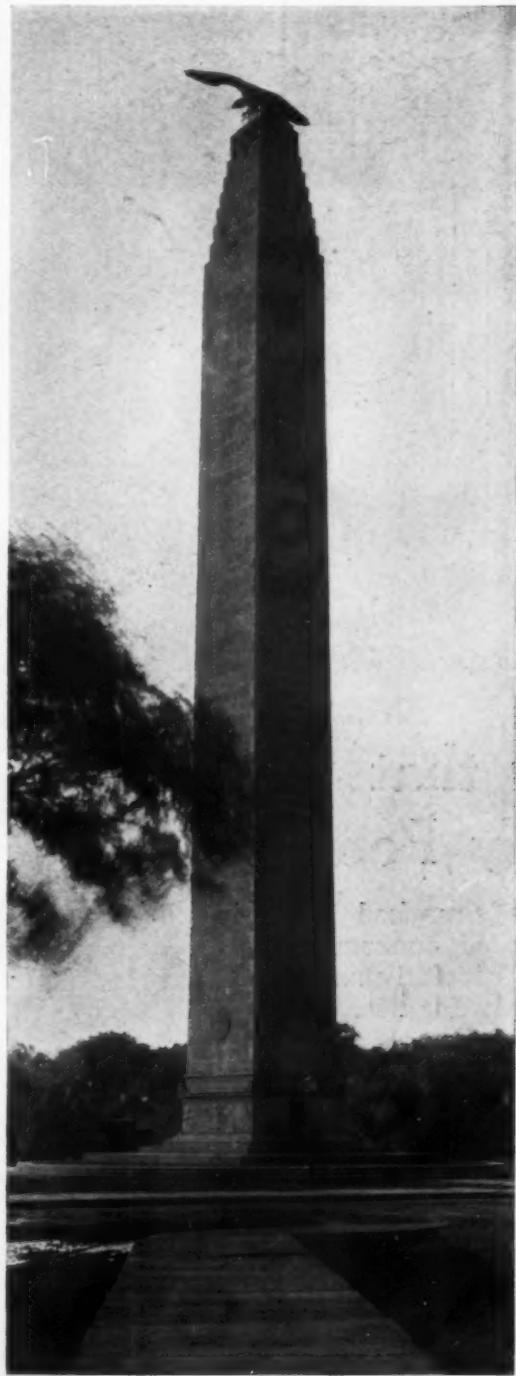
Millions of acres of forests are available in the Inland Empire of the Great Northwest. New growth is added each year. There is an abundance of Pondosa for every building purpose at all good lumber yards. Write for booklet. Address Dept. 29, Western Pine Manufacturers Association of Portland, Oregon.

Pondosa Pine 
The Pick o' the Pines



*Write for
this booklet*

The NATION'S BUILDING STONE



Memorial erected to Commodore Thomas MacDonough, victor over the British fleet in 1814. Plattsburgh, New York
John Russell Pope, Architect

Consistency of Design and Materials

It is a noble thing to erect a memorial to carry down through the years the memory of those who have devoted or sacrificed their lives to any great cause.

Indiana Limestone memorials possess all the essentials of beauty, dignity and repose. Whether they be monumental structures, or simple shafts of stone, such memorials arrest the attention of the beholder by the sheer loveliness of color-tones and texture.

The Elks National Memorial Headquarters building, Chicago, and the Tennessee War Memorial, Nashville, illustrated elsewhere in this issue, are also built of Indiana Limestone.



Baltimore War Memorial
Baltimore, Md.
L. H. Fowler, Architect

INDIANA LIMESTONE COMPANY

The NATION'S BUILDING STONE

Other Indiana Limestone Memorials

Liberty Memorial, Kansas City, Mo.
War Memorial, Southampton, L. I.
Memorial Arch, New Orleans, La.
Soldiers Memorial Gateway, Brown University, Providence, R. I.
Memorial Arch, Oberlin College, Oberlin, Ohio.
Confederate Memorial, Richmond, Va.
Hulbert Memorial, Detroit, Mich.
Centennial Memorial Bldg., Springfield, Ill.
Soldiers and Sailors Monument, Indianapolis, Ind.
Astor Memorial, Trinity Church Yard, New York, N. Y.
Waddell Memorial Fountain, Winnipeg, Canada
War Memorial Cross, Philadelphia
War Memorial, St. James Cathedral, Toronto, Ontario, Canada
Soldiers and Sailors Monument, Bedford, Indiana

**General Offices: Bedford, Indiana
Executive Offices: Tribune Tower, Chicago**

Address all communications to
Box 766, Bedford, Indiana



John B. Murphy Memorial, Chicago
Marshall & Fox, Architects



Royal Military College Memorial Arch, Kingston, Ontario
John M. Lyle, Architect



Jefferson Memorial, St. Louis, Mo.—Isaac Taylor, Architect

INDIANA LIMESTONE COMPANY

STANDARD OIL BUILDING
San Francisco
Geo. W. Kelham, Architect

MISSISSIPPI WIRE GLASS CO.
220 Fifth Avenue, New York
Chicago St. Louis

A few stock designs of Mediaeval Character

ROOKWOOD

is pre-eminent in the field of decorative tiles. Designs conforming to all periods are at your disposal for use with marble, brick, stucco and plain tile work.

We invite inquiries.

THE ROOKWOOD POTTERY CO.
Architectural Dept., Cincinnati, Ohio

Wire Fences
and Gates
Electric-Weld
Railings and Gates

**Anchor
Fences**

ANCHOR POST IRON WORKS, 9 EAST 38th ST., NEW YORK, N. Y.
BRANCH OFFICES IN PRINCIPAL CITIES



An interesting example of the unusual decorative effect obtainable with floors of "U. S." Tile. And in addition to colorful beauty, when you include "U. S." Tile in your specifications you assure your client floors of maximum durability, resilient comfort and sanitation.

May we send you information for your files?

United States Rubber Company

1790 Broadway, New York City

"U.S." TILE FLOORING



Beauty Salon of the City of Paris Dry Goods Company, San Francisco, Calif. Floored with eighteen-inch squares of black and white Linotile, with black and white border.

Store Floors of Inviting Beauty and Comfort

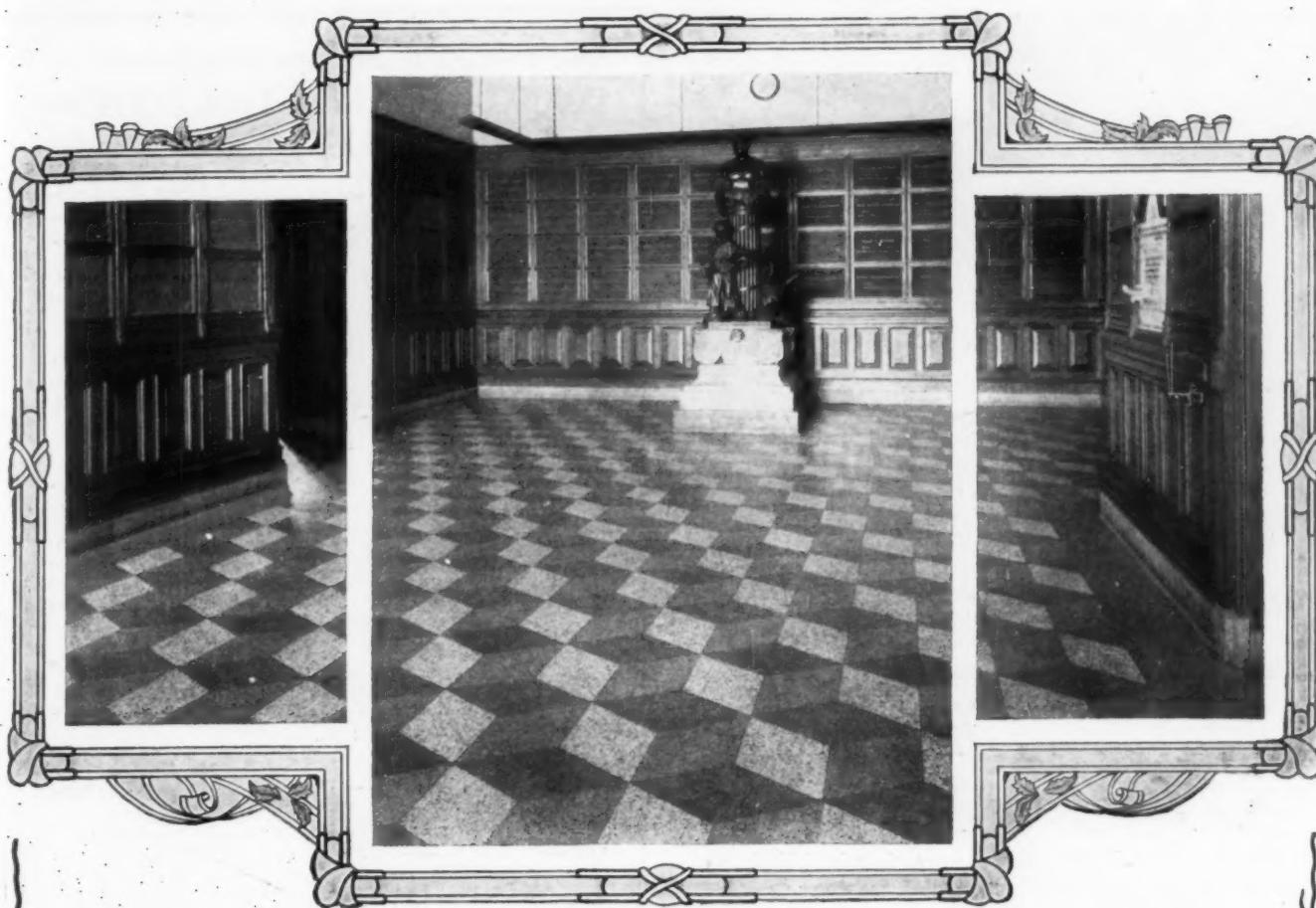
HERE is an excellent example of how the floor can be used to heighten the effect of beauty and comfort in a store. This Linotile floor has all the attractiveness and individuality of a ceramic tile design as well as restful comfort underfoot—a welcome relief from hard floors and sidewalks.

Linotile is a *resilient* tile, made of cork composition—quiet and easy underfoot, nonslippery and nonabsorbent. It is extremely durable, too, and withstands even heavy traffic near doorways and counters with very little sign of wear. The colors are solid and do not become dull or faded. Made in many sizes and colors, Linotile allows

the greatest freedom for individual designs and color combinations. It is readily adaptable to any decorative scheme, and can be laid over any smooth, dry base.

The 32-page book, "Linotile Floors for Public and Semi-Public Buildings" contains many illustrations in full color of Linotile designs together with complete information and specifications. It will be mailed on request. Write for it and for a free sample of Linotile. Address ARMSTRONG CORK & INSULATION COMPANY, *Division of Armstrong Cork Company, 132 TWENTY-FOURTH STREET, PITTSBURGH, PA.*

Linotile Floors



The Several Colors of Norton Aggregates Afford Opportunity for Attractive Effects Where Slip-proof and Wear-resisting Floors Are Desirable

THE floor in the entrance to the Hebrew Orphan Asylum, Amsterdam Avenue, New York, is an excellent example of the use of Alundum Aggregates in terrazzo to secure a walking surface that is both slip-proof (wet or dry) and wear-resisting. Three colors of Alundum Aggregates and three similar colors of marble chips in a contrasting diamond design have resulted in a floor that is strikingly attractive as well.

In one set of diamonds Botticino marble chips have been combined with approximately 30 per cent of cream Alundum Aggregates. In another set the marble chips are yellow Verona and the

abrasive aggregates are buff, while in the third set of diamonds the marble chips are red Verona and the aggregates are brown in color.

NORTON COMPANY, WORCESTER, MASS.
New York, Chicago, Detroit, Philadelphia, Pittsburgh, Hamilton, Ont.





*The Queensbury Hotel,
Glens Falls, N. Y.
Ballroom floored with
Maple*

Nature's lasting beauty for your floors

Nature itself puts beauty and life and tenacious durability into Maple, Beech and Birch. The wind, the sunshine and the rain of the northern climate gives these woods their amazing toughness and firmness, with their close-grained compactness that invites a perfect polish and resists the hardest wear.

With the proper polish to enhance their natural hues, they provide a floor which appeals to the eye and mind. The architect likes them, because they harmonize with any scheme of decoration and wall finish. The builder likes them because they justify his good work.

Smooth, quickly cleaned, such a floor is easily kept free from dust and dirt, and steady wear only adds to its pleasing glossiness of surface.

Lay one of these floors right over your present floor, if you like. This can be done, regardless of the kind of floor you have.

Our Service and Research Department is a clearing house for accurate information about the utility and characteristics of Maple, Beech and Birch flooring. This information is freely given to any user of **MFMA** flooring. Let us assist you with your flooring problems. In order to co-operate in every possible way we have prepared the following booklets for your use. Any one or all will be gladly sent to you free upon request.

- Color Harmony in Floors*
- The Floors for Your Home*
- Three Native Hardwoods of Sterling Worth*
- How to Lay and Finish Maple, Beech and Birch Floors*
- Floors for Educational Buildings*
- Hardwood Flooring in Office Buildings*

MAPLE FLOORING MANUFACTURERS ASSN.
1057 Stock Exchange Building, Chicago

Guaranteed Floorings

The letters **MFMA** on Maple, Beech or Birch flooring signify that the flooring is standardized and guaranteed by the Maple Flooring Manufacturers Association, whose members must attain and maintain the highest standards of manufacture and adhere to manufacturing

and grading rules which economically conserve these remarkable woods. This trade-mark is for your protection. Look for it on the flooring you use.

MFMA

**Floor with Maple
Beech or Birch**

Get this NEW 32 page Hand Book on CORNELL ROLLING STEEL DOORS— COMMERCIAL AND UNDERWRITERS LABELLED ROLLING STEEL FIRE DOORS



Drawings, giving complete dimensions and clearances.

An explanation of the construction, application and uses of Rolling Steel Doors.

Plans, sections and elevations of 42 types of doors.

Class of label, limiting sizes, dimensions and clearances of 30 types of Rolling Fire Doors.

Fill out coupon for
Fits a standard letter file—8 1/2" x 11" your copy.

CORNELL IRON WORKS, INC.,
36-23 Thirteenth Street,
Long Island City, N. Y.

Please mail a copy of the new 1926 handbook and catalogue of Cornell Rolling Steel Doors and Fire Doors to

Name

Address

City State

Mark attention

Architects, builders and construction engineers who select roofs for industrial buildings, hospitals, apartments, schools, etc., will find in Ruberoid Built-up Roofs the very qualities they most desire—unsurpassed ability to resist weather and wear combined with light weight and economy of construction.

We shall be glad to send you on request specifications for Ruberoid Built-up Roofs, bound in a convenient folder which fits your files.

The RUBEROID Co.
95 Madison Avenue, New York
Chicago Boston

RU-BER-OID
Built-up Roofs

The Finest Buildings use Grauer Sidewalk Lights



The laundry of the Book-Cadillac Hotel, Detroit, is a daylight work room. (Louis Kamper, Architect). This magnificent building is one of many handsome new structures in which the IMPROVEMENT of Grauer Sidewalk Lights is utilized. These lights give wide diffusion of daylight in basement rooms, and eliminate repair troubles.



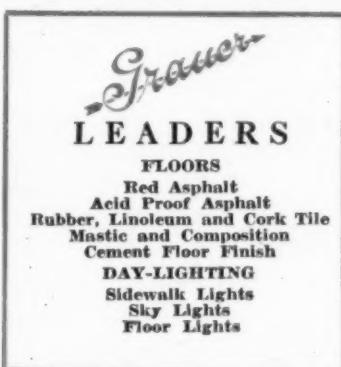
Cheerful, pleasant, efficient, is the first thought of an observer of the modern laundry plant in the first basement of the palatial Book-Cadillac, Detroit's beautiful hotel. The girls in their smocks of varied colors make a rainbow in the sunlight. This is no idle sentiment—but practical business. For color means greater efficiency of workers, because they are satisfied with their working conditions.

Would they be thus satisfied in an artificially lighted basement? Could a well-organized force be maintained under those conditions? Here is a typical example of the revenue-producing effect of daylight—daylight that costs *less* than artificial light—daylight that actually pays for itself in a short time out of savings in electric current.

Better Basement Light at Less Cost

*And Repair Troubles
Eliminated*

Grauer Sidewalk Lighting is distinctly a convenience and an investment. Grauer Lights are non-leakable, rust-proof, non-chipping, easily installed, rarely need replacing. Plastic cushions around each glass protect them from breakage and shattering due to expansion of surrounding concrete. Glasses broken by accident may be easily replaced by unskilled labor.



GUARANTEE

Our iron-clad guarantee provides that Grauer Sidewalk Lights shall be rust-proof, free from defect for one year; replacement glasses will be supplied free for five years. 300 lb. per square foot is the normal carrying capacity, although they can be made to carry 1000 lbs.

This coupon or your letter will bring clearly illustrated specifications bulletin, and special questions are welcomed.

Albert Grauer & Co.
1408 17th Street Detroit, Michigan, U. S. A.

ALBERT GRAUER & CO., Detroit, Mich.
following: Send specifications of Sidewalk Lights. Also data on
RED ASPHALT FLOORING;
Keep me informed of: Sky Lights;
bulletins. I am specially interested in:
Name: _____
Address: _____

A TILE ROOF OUTLASTS ANY HOME



Residence of Walter Boschen, Architect, St. Joseph, Mo. Roofed with IMPERIAL Straight Barrel Mission Tiles in a variety of colors

On the Homes of Many Architects

IMPERIAL Roofing Tiles have been selected by numerous architects to roof their own residences. Among the latest is Walter Boschen, whose attractive home at St. Joseph, Mis-

souri, is illustrated above. No one appreciates better than an architect that a roof of these tiles is assurance of lifelong beauty and protection without repainting or repairs.

LUDOWICI - CELADON COMPANY
Chicago, 104 S. Michigan Ave. New York, 565 Fifth Ave.

IMPERIAL
Roofing Tiles



*We advertise this way
to your clients —*

in Saturday Evening Post, December 4, 1926



*President
Sutherland
takes a shot at*

George Burt's "economy"

Four years ago, George, when we decided to build that Morton plant and put you in charge as superintendent, I let you have your say on the specifications. One item you balked at was a Barrett Specification Roof—said you could get a roof that was O. K. for less money.

Now let's face facts.

We have nine plants scattered over the United States. Eight of those plants have been built anywhere from eleven to sixteen years. On those eight plants we have Barrett Specification Roofs. To date not one cent for roof repair or maintenance from those eight roofs. But what about the Morton plant, your plant, built four years ago with your just-as-good roof? That roof cost us last year \$367.00 for repairs, plus damage to stock from roof leaks amounting to \$2160.

Do I have to point the moral? —

that cost per year of service, and not initial cost, is the important factor to consider when buying certain things. Roofs, for instance.

Yours very sincerely,

R. K. Sutherland [President]

* * * * *

Experience has proved that a Barrett Specification Roof will show the lowest unit cost (the cost per square foot per year of service) of any roof.

With it the owner receives a Surety Bond which guarantees him against any expense for roof repairs for 20 years.

Add this: Service records on file tell of great numbers of Barrett Roofs of this type laid 35 to 45 years ago which are still weather-tight—and never a cent for repairs. Finally — Barrett Specification Roofs take the base rate of fire insurance.

Barrett
SPECIFICATION
ROOFS



*— and here's your side
of this roof thing
(as other architects see it)*

Within the last few months we've asked a number of architects:

"Why do you specify Barrett Specification Roofs? What points about them interest you most?"

In the minds of these men these things loomed big—important!

1. No supervision by the architect is necessary to see that quantity and quality of materials are right. The Barrett Specification prescribes exactly the number of layers of Specification Felt, the amount of Specification Pitch, the top coat of pitch poured (not mopped) and finally the wearing surface of firmly embedded gravel or slag.

2. No supervision by the architect is necessary to make sure that a dependable man is laying the roof. The man who lays the roof must have earned a name for dependability. Only such men can qualify to lay a Barrett Specification Roof—can obtain a Bond for the owner.

3. No supervision by the architect is necessary to be sure that his client gets a roof in which every detail of material and construction is exactly according to a specification universally recognized as 100% right. Highly trained Barrett technical men are on the job while the roof is being laid to see that The Barrett Specification is followed in every detail.

4. Finally, a Barrett Specification Roof takes the base rate of fire insurance.

Send for your copies of our Architects' and Engineers' Built-up Roofing Reference Series.

THE BARRETT COMPANY

40 Rector Street, New York City

IN CANADA:

The Barrett Company, Limited
5551 St. Hubert Street, Montreal, Quebec, Canada



Sheet Metal Work that Resists Rust!

The destructive enemy of sheet metal is *rust*. It is successfully combated by the use of protective coatings, or by scientific alloying to resist corrosion. Well made steel alloyed with Copper will last longest. Insist upon

KEYSTONE Rust-Resisting Copper Steel Sheets AND ROOFING TIN PLATES



Add safety to satisfaction, with full protection from fire, lightning, and weather. Keystone Copper Steel gives superior service for roofing, siding, gutters, spouting, flashings, metal lath, tanks, culverts, and all uses to which sheet metal is adapted. Look for the Keystone included in brands. We manufacture American Bessemer, American Open Hearth, and Keystone Copper Steel Sheets and Tin Plates for every requirement of particular architects, builders, and property owners.

Black Sheets for all purposes
Apollo Best Bloom Galvanized Sheets
Apollo-Keystone Galvanized Sheets
Formed Roofing and Siding Products
High Grade Roofing Tin Plates
Fire Door Stock, Long Ternes
Bright Tin Plates, Black Plate, Etc.

APOLLO-KEYSTONE Galvanized Sheets give increased service and added permanence to your building construction. These are unquestionably the highest quality sheets produced for galvanized sheet metal work.

KEYSTONE COPPER STEEL Roofing Tin Plates make clean, safe, attractive and satisfactory roofs. Supplied in grades up to 40 pounds coating—specially adapted to residences and public buildings. Metal roofs may be painted to harmonize with the color scheme of the building—an important feature which is often overlooked. Keystone quality products are sold by leading metal merchants, and used by first-class roofers and sheet metal workers.

American Sheet and Tin Plate Company

General Offices: Frick Building, Pittsburgh, Pa.

DISTRICT SALES OFFICES
 Chicago Cincinnati Denver Detroit New Orleans New York
 Philadelphia Pittsburgh St. Louis
 Pacific Coast Representatives: UNITED STATES STEEL PRODUCTS CO., San Francisco
 Los Angeles Portland Seattle
 Export Representatives: UNITED STATES STEEL PRODUCTS COMPANY, New York City

THE CUTLER MAIL CHUTE

TO MEET Post Office requirements the location and arrangement of the Mail Chute Equipment should have early and careful attention.

We shall be glad to furnish information, details and Copies of Regulations on request.

CUTLER MAIL CHUTE CO.
 GENERAL OFFICES AND FACTORY
 ROCHESTER, N.Y.

Engineering Counsel for Architects



KEWANEE'S nationwide organization of hydraulic-electric engineers will counsel any architect without charge.

KEWANEE men are not salesmen nor ex-plumbers, but trained experts in private water supply, electric light and sewage disposal. Back of them is the KEWANEE quarter century of technical and manufacturing experience and the KEWANEE line of over 200 private utility systems.

We appreciate the architect's needs and problems. We are glad to help draft specifications for proper private utilities to fit the exact needs of each job—from country cottage to million dollar club or estate.

FREE BOOK of Specifications

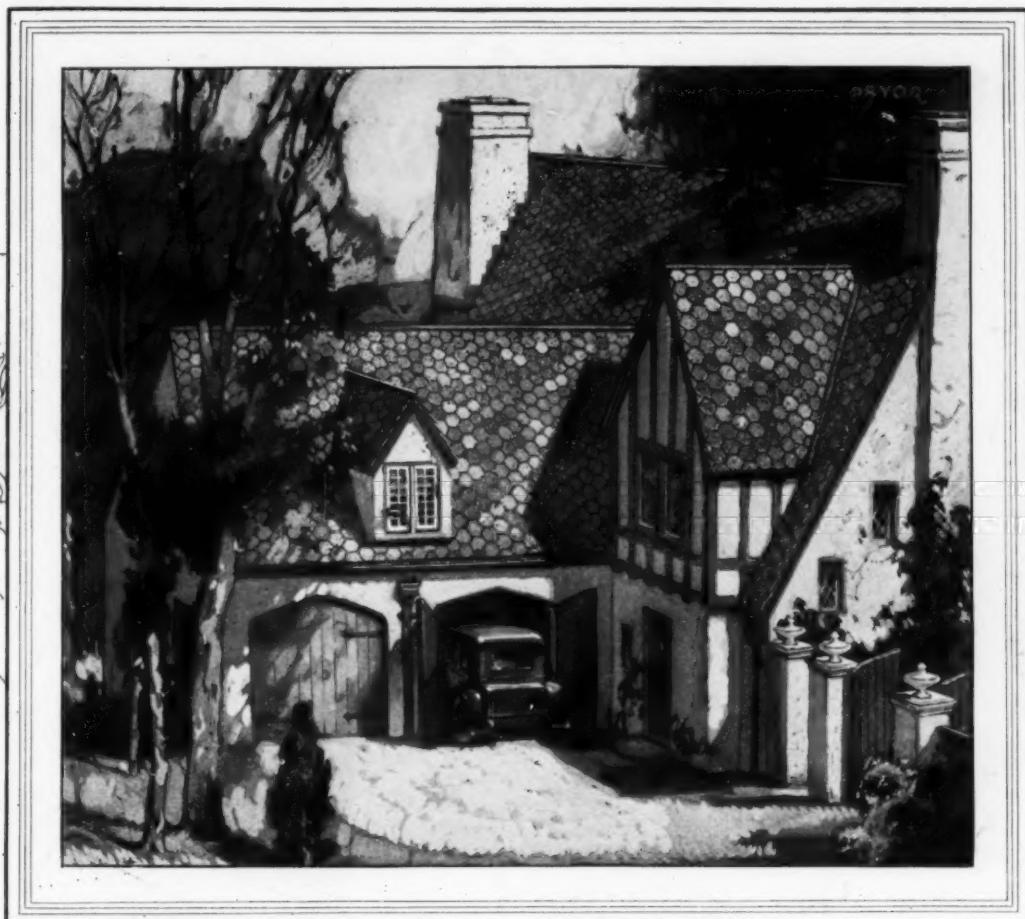
Our complete architect's specification book contains a mass of engineering data and specifications on water supply, electric light and sewage disposal. You need it. Sent free. Write for it.

KEWANEE PRIVATE UTILITIES CO.
 442 Franklin St., Kewanee, Ill.

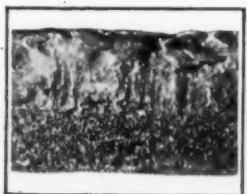


KEWANEE
 WATER & LIGHT

 SEWAGE DISPOSAL



Harmonious colors and unusual thickness



MICROSCOPIC
ENLARGEMENT

THE wearing qualities of Preston Shingles depend not only on the quality but on the quantity of asphalt which each shingle contains. If you examine the edge of a Preston Shingle, you will notice that it is practically a solid body of asphalt. This feature of Preston Shingles accounts for their remarkable wearing qualities.

THESE two qualities make a Preston Roof distinctive. Green, blue-black, red and a sunset blend are offered to the architect who seeks a distinctive color effect without obtrusiveness. Soft natural tints are secured from the slate particles with which Preston Shingles are surfaced.

The Massive Weight is *one-third thicker than a No. 1 standard slate shingle*. This ample thickness creates the shadow line that architects demand. Samples of Preston Shingles and an information card for your files will be mailed on request.

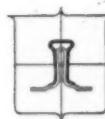
Keystone Roofing Manufacturing Co., Dept. D24, York, Pa.

Preston
ROOFING





Weatherstripping the Inside as well as the Out



THE inside door bottom illustrated here is but one of the many features Higgin can provide for the comfort and economy of your client. It prevents the passage of cold air from bedroom into halls, baths, or dressing rooms and can be installed on any door.

The Higgin Rib Track and Spring Temper Bronze Insert equipment is recognized as the outstanding weather-stripping for double-hung windows. (See detail panel above.) The track and insert form a metal-to-metal contact which drafts will not pass. Casements, also, can be perfectly equipped with Higgin-made and Higgin-installed weather-stripping.

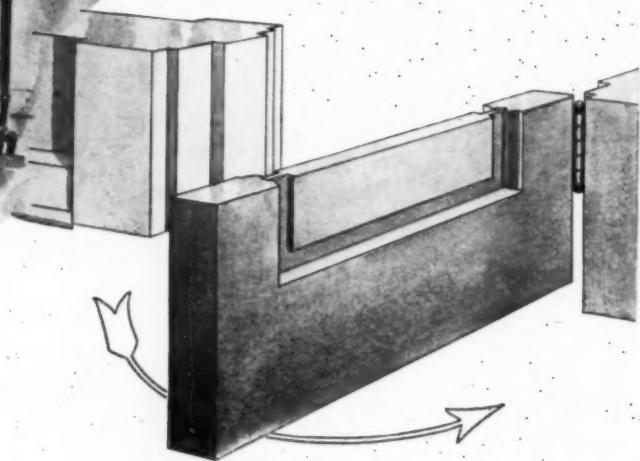
Only thoroughly trained mechanics install Higgin Weather-stripping and the Higgin reputation backs every job. Our representative is at your call. He will be glad to work with you. Ask him in today. Look for "Higgin" in your telephone directory.

A. I. A. File No. 19 e 14 (Weatherstrips)

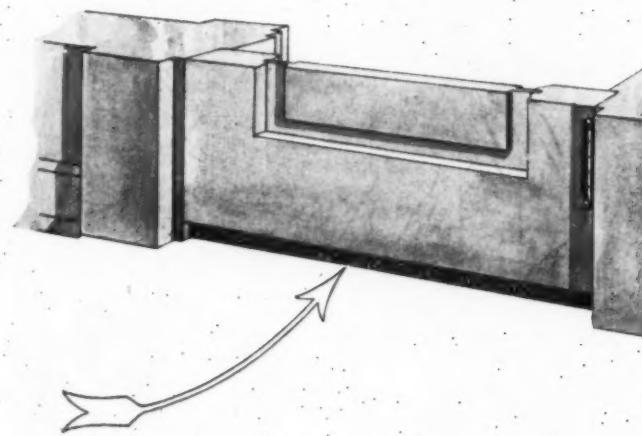
THE HIGGIN MFG. COMPANY
Newport, Kentucky

Toronto, Canada

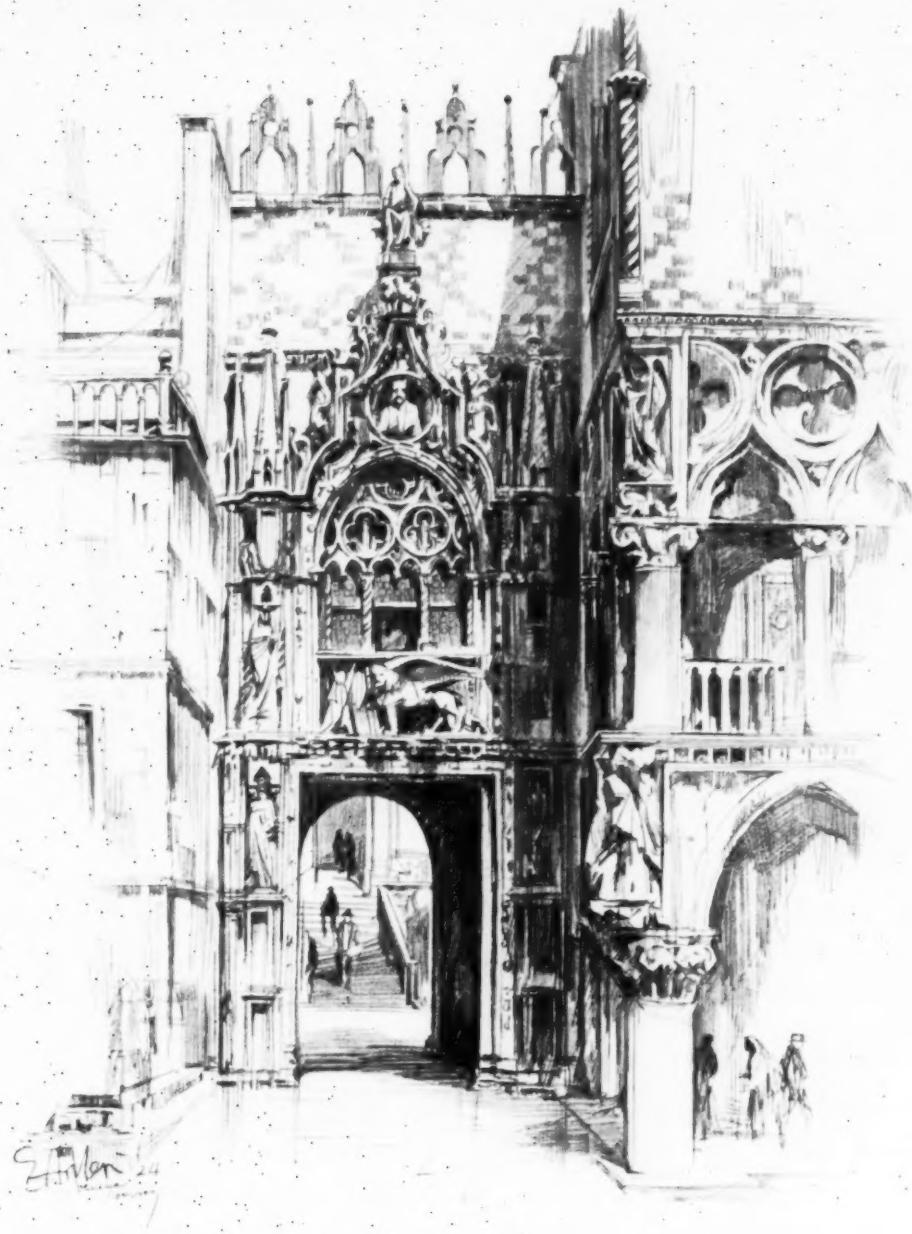
HIGGIN
ALL METAL
Screens and Weatherstrips



This illustration shows felt automatically raised flush with bottom of door when door is open thus allowing for free swinging of door over rug.



This illustration shows felt automatically lowered to a snug contact with the floor when the door is closed.



HERE is the doorway to the Doges Palace, through which many great rulers have come and gone—a beautiful piece of architectural ornament. The Eldorado pencil drawing shown above was made by Earl Horter from the piazza of St. Mark's.

**DIXON'S
ELDORADO**
"the master drawing pencil"

JOSEPH DIXON CRUCIBLE COMPANY
Pencil Dept. 224-J, Jersey City, N. J.

SAMPLE OFFER

Write for full-length free samples of "*The master drawing pencil*" and of Dixon's "BEST" Colored Pencils. In their field, the "BEST" Colored Pencils hold the same position of supremacy as Dixon's Eldorado.

This is the fourth
of the 1926 Quarterly Reference Numbers
being published by
THE
ARCHITECTURAL FORUM



EACH Reference Number is a comprehensive treatise on a single type of building—complete, authoritative, up-to-date, and in many cases the only published work on the subject.

There are over 20 types of buildings of sufficiently vital interest to architects to form the subject matter of Reference Numbers. Since these issues appear quarterly, a little more than five years are required to complete the cycle. Once the cycle has been finished, the subjects will be treated anew, thus placing before an architect a record of progress made and forming a self-perpetuating reference library for his office.

Sold singly, the Reference Numbers cost \$2 each. Four Reference Numbers and eight regular issues are included with a Forum subscription, for which the charge is \$6 (Canada \$6.75; Foreign \$7.50).

Previously Published
Forum Reference Numbers

1922

SCHOOLS
HOSPITALS

1924

CHURCHES
SHOPS AND STORES
OFFICE BUILDINGS
APARTMENT HOTELS

1923

COUNTRY HOUSES
BANKS
INDUSTRIAL BUILDINGS
HOTELS

1925

GOLF AND COUNTRY CLUBS
MOTION PICTURE THEATERS
APARTMENT HOUSES
UNIVERSITY BUILDINGS—PART I

Reference Numbers
for 1926 and 1927

1926

March; SMALL DWELLINGS
June; UNIVERSITY BUILDINGS—PART II
September; CLUB AND FRATERNAL BUILDINGS
December; COMMUNITY AND MEMORIAL BUILDINGS

1927

March; AUTOMOTIVE BUILDINGS
June; PUBLIC BUILDINGS—PART I
September; PUBLIC BUILDINGS—PART II
December; LIBRARIES

THE ARCHITECTURAL FORUM

383 Madison Avenue, New York

G&G

The
G&G
TELESCOPIC HOIST

Telescopic Hoist
with Automatic Gear Shifting Brake
Device and Silencer

GILLIS & GEOGHEGAN
1866-1926

Sixty Years of Service
to the
ARCHITECTURAL PROFESSION

TWO Model A G&G Telescopic Hoists were installed at Madison Square Garden, New York (McKim, Mead & White, Architects) in 1889 and were in continuous use until the building was razed in 1925—a total of 37 years dependable, efficient service!

GILLIS & GEOGHEGAN
544 West Broadway, New York

MADISON SQUARE GARDEN
STANFORD WHITE, ARCHITECT
Copyright 1926
IRVING UNDERHILL, NEW YORK

G&G



Forget the mechanical aspect of automatic temperature and humidity regulation for the moment, and consider the human element which constitutes Johnson service, accompanying Johnson System Of Temperature And Humidity Control. The ability and responsibility of men and an institution of highest standing are the influence cooperating with you when you specify The Johnson System. And automatic temperature and humidity regulation, therefore, becomes reliably accurate and successful: in your behalf, as well as for your clients.

JOHNSON SERVICE COMPANY

MAIN OFFICE & FACTORY, MILWAUKEE, WISCONSIN
AUTOMATIC TEMPERATURE REGULATION SINCE 1885.
TWENTY-NINE BRANCHES, UNITED STATES & CANADA

JOHNSON

SYSTEM OF TEMPERATURE AND HUMIDITY CONTROL

The All Metal System: And Designed, Manufactured, Installed Solely And Entirely By Johnson Engineers And Mechanics: Assuring Thoroughly Correct, Reliable Results Permanently.



Johnson Dual or Two Temperature Thermostat:
one temperature for occupied rooms, another
temperature for unoccupied rooms day or night.
Write for details of this Johnson advantage.

SHERWIN- PAINTS VARNISHES

EVERY genuine Sherwin-Williams product carries this famous "Cover the Earth" trade mark. Millions of home owners—great railroads, steamship lines and industrial concerns—from one end of the world to the other—have implicit faith in it.



When the picture on the opposite page was taken, three top floors had not been decorated. Here is the well balanced list of materials for the first five floors:

Flat-Tone	800 gallons
Flat-Tone Size	375 gallons
Semi-Lustre	75 gallons
Semi-Paste Paint	45 gallons
Old Dutch Enamel	60 gallons
Handcraft Stain	40 gallons
Shellac	45 gallons
Mar-Not	75 gallons
Concrete Floor Paint	30 gallons
Flat Rite	100 gallons
Oil Colors	200 pounds
Paste Filler	300 pounds
Zilo	800 pounds
ODP Lead	2100 pounds
Decotint	1500 pounds
Floor Wax	75 pounds

Trade-mark Registered

THE LARGEST PAINT AND VAR-

WILLIAMS

LACQUERS • ENAMELS

The
**SOPHIAN PLAZA
APARTMENTS**

One of the seven new Tulsa, Oklahoma, buildings finished throughout with Sherwin-Williams paints and varnishes in the last year. Architects: Shephard & Wiser, Kansas City, Missouri. Paint Contractor: R. M. Burchet, Tulsa, Oklahoma.



In Tulsa's 7 new big buildings

The Sophian Plaza Apartments rank with the largest and finest buildings in Oklahoma. Last year Sherwin-Williams paints and varnishes were used exclusively in this and six similar new buildings in Tulsa alone.

Sherwin-Williams finishes bring public-building durability combined with color and texture to interpret any scheme. The large technical laboratories and complete decorative service of Sherwin-Williams can prove helpful in planning the decoration of all types of buildings.

THE SHERWIN-WILLIAMS COMPANY
Cleveland, Ohio

NISH MAKERS IN THE WORLD



Above shows
'out of service'
condition



The cover is easily
removed



The Flat Plug is removed
from cover and the cover
is reversed. Note the high
rim protection on "in
service" side of cover



The Split Bushing
(at left) takes the place
of the Flat Plug



Here is shown the
"In Service" condition.
The Flat Plug is placed
in the Floor Box for
safe keeping

SPECIFY Floor Boxes

(with reversible covers)

Frankly, you will not find the same collection of good features elsewhere.  Floor Boxes are *adjustable*. They can be installed at any angle, yet the top can be adjusted to the proper floor level.  Floor Boxes are *substantial*. They cost less than two-cover type. They become a permanent floor connection for lights, bells, buzzers, telephone, etc. A quick change from "out of service" to "in service," or vice versa, can be made at any time.  Floor Boxes are *water-tight*. A heavy, round, long-life gasket gives full protection from all moisture. The inside is always dry. The wiring can never be damaged . . . You should be interested to learn more—

Send for the  Catalog. It gives full details and is entirely free. Complete estimates furnished gratis; ask for them

Frank Adam
ELECTRIC COMPANY

ST. LOUIS
District Offices

Atlanta, Ga. Dallas, Texas Minneapolis, Minn. Portland, Ore.
Baltimore, Md. Denver, Colo. New Orleans, La. Seattle, Wash.
Boston, Mass. Detroit, Mich. New York City, N. Y. San Francisco, Calif.
Chicago, Ill. Kansas City, Mo. Philadelphia, Pa. St. Louis, Mo.
Cincinnati, Ohio. Los Angeles, Calif. Pittsburgh, Pa. Winnipeg, Canada
London, Ont., Canada

BRONZE

Gorham
standard details
offer a variety of
interesting and
helpful designs.
Specify Bronze
by

GORHAM

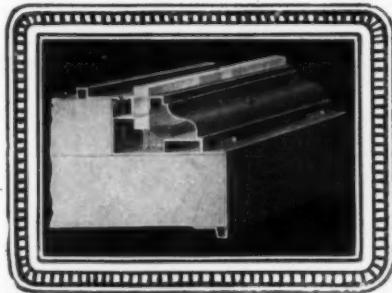
BRONZE DIVISION
PROVIDENCE, R. I.



WINDOWS
IN
SOLID NICKEL-SILVER
(CASEMENT OR WEIGHT HUNG)
PERFECT WEATHERING
WILL NOT RUST

SEND FOR INFORMATION

THE
Kawneer
COMPANY
NILES, MICHIGAN



Brasco "Series 500" All Copper Construction

The Architecture of Show Windows

INCREASING store rentals have produced a marked trend toward more effective use of window display space. Bays, recesses, island windows are a natural result of the attempt to lengthen out the actual display frontage, particularly of narrow stores.

Brasco, from the architectural viewpoint, is an *efficient* store front construction. It permits of the most advantageous use of any frontage available, no matter what size or shape.

The complete assortment of attractive copper mouldings in varied finishes—sash, corner, division, and reverse bars, sills, jambs, transom bars and accessories—gives a broad flexibility of design covering innumerable architecturally beautiful fronts.

Added to this opportunity for individual expression, are the many patented constructional features with their definite assurance of glass safety, strength, efficient ventilation and drainage and long satisfactory service.

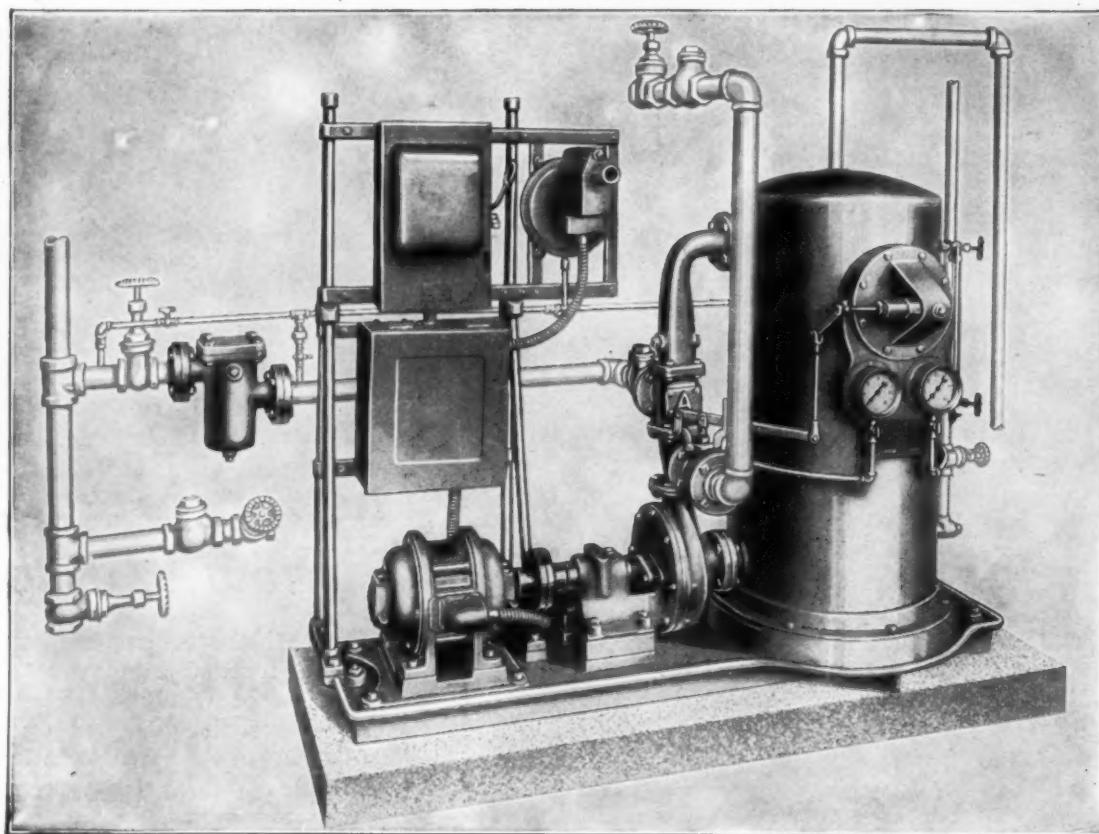
Our catalogs, detail sheets and actual samples are gladly furnished on call.

BRASCO MANUFACTURING CO.

5031 Wabash Avenue, Chicago

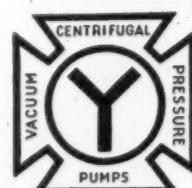
Eastern Sales Office and Warehouse
28-14 Wilbur Ave., Long Island City, N. Y.

Brasco
COPPER STORE FRONTS



VI Unit equipped for automatic vacuum control, showing piping connections. Suction strainer and check valve at inlet of pump are furnished with unit, as well as companion flanges, bolts and gaskets.

YOUNG CENTRIFUGAL VACUUM AND BOILER FEED PUMPS



They Are Quickly
and Easily
Installed

YOUNG PUMPS are installed with the least amount of labor and expense because they are shipped from the factory as completely assembled units. The electrical equipment is already mounted ready for connection to the supply lines.

When setting up the pump there are only two principal piping connections to be made, and the electrician's only work is to connect the feed wires to the pump switch. The unit is then ready to operate.

Supplied in
Standard Units of
Seven Capacities

Before being shipped each Young Pump is connected and run for hours under rigid working conditions. Every part must be correct and every bearing perfectly aligned. This careful test insures proper operation the first time the switch is pulled.

Because of their simple, rugged construction Young Pumps may be depended upon to deliver constant uninterrupted service in the hands of the average janitor or boiler fireman.

YOUNG PUMP COMPANY

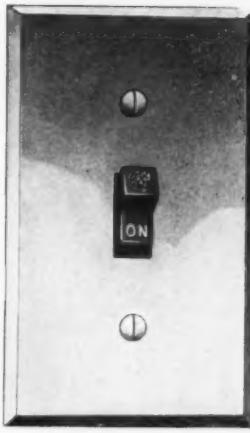
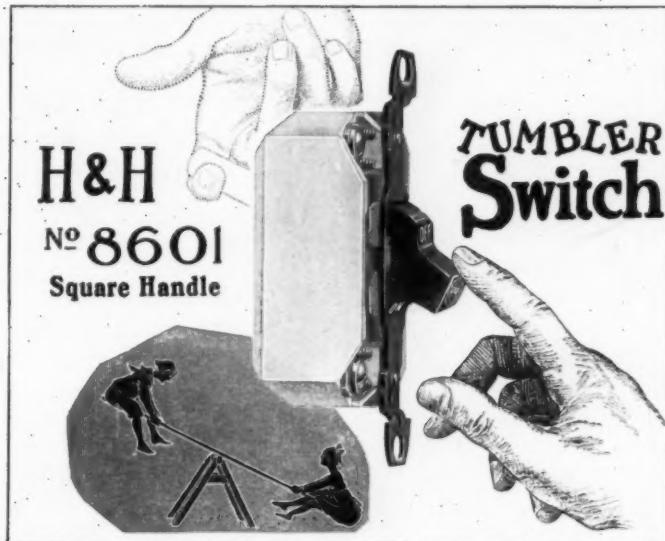
DUNHAM BUILDING
450 East Ohio St., CHICAGO
Factory: Michigan City, Indiana

In Canada: C. A. DUNHAM CO., Ltd.
1523-41 Davenport Road, Toronto

Young Pumps Have Large Reserve Capacity



No. 8601 SQUARE



Reputations in the "balance"

REPUTATIONS go on trial when Switches go into the walls. Installed to be as permanent as the walls, these lighting controls concern the Architect as key-mechanisms in a building's service.

If a switch fails after a few thousand snaps, someone's confidence "snaps" in the specifier. Is it ever well to risk a name on a thing so small in cost? Is it ever wise to yield the point of *assured performance* to a shading in price?

So far as switches can safeguard a name—your own and ours—rely on the "balanced movement." Here in the "8601 Tumbler" is the smoothest of actions, the freest from impact; mechanically most immune from wear.

Practical tests of the Balanced Tumbler have established records unparalleled in the performance of switches. That's where your H & H workmanship *counts*:—not in claims but in hundreds of thousands of snaps.

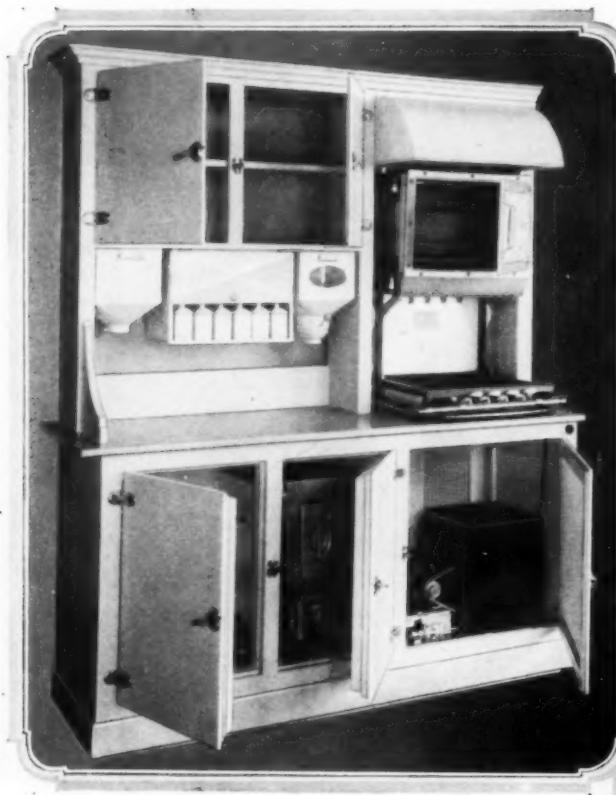
The connecting link between good Reputations and good, reliable Switches is Catalogue "S." Sent gladly if you'll drop a line to the "Makers of electric switches since 1890."



THE HART & HEGEMAN MFG. CO.
HARTFORD, CONN.

**"THE SWITCH WITH THE
BALANCED MOVEMENT"**

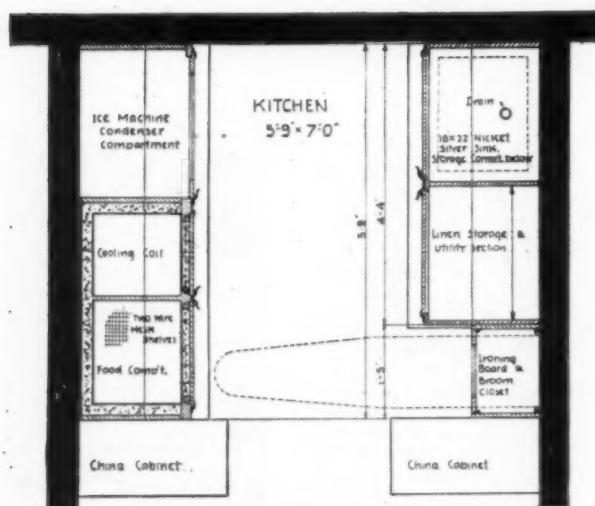
A Complete Kitchenette in



"White" Duo-Unit Cabinet A

Unit A—Contains range, refrigerator designed for electrical refrigeration, storage space, sugar and flour bins, spice jars and work table. When used with Unit B the result is the most efficient conception of a kitchenette within a minimum of floor space—less than 40 sq. ft.

Unit B—Contains full size sink with work top, ironing board, storage compartments and linen trays. The use of these two units forms a compact arrangement of maximum convenience in a space as small as 5 ft. 9 in. x 7 ft.



Floor plan showing proper placing of cabinets and illustrating the compact, convenient arrangement made possible by the "White" Duo-Unit Kitchenette.

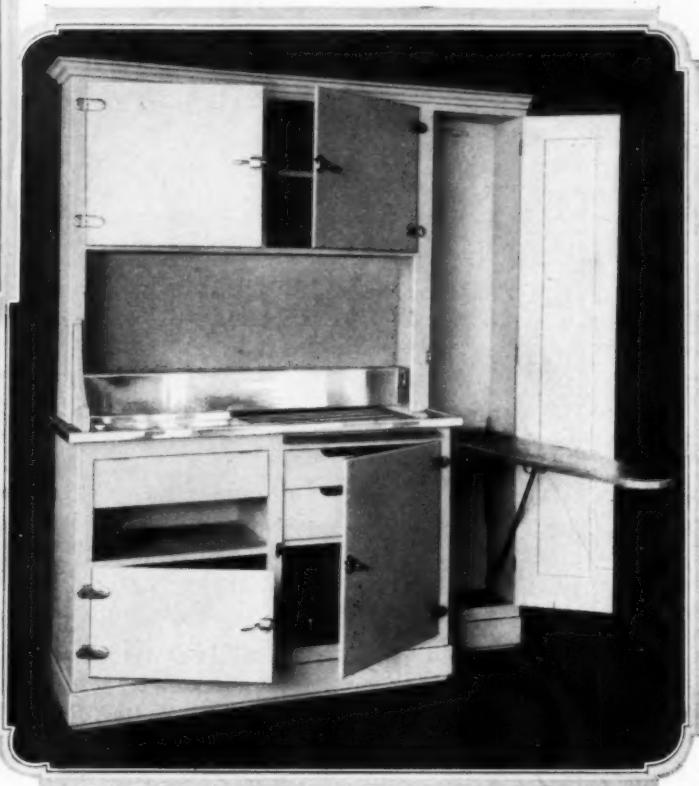
The "White" Duo-Unit Kitchen Cabinets

One of the Greatest Contributions to Modern Apartment Comfort—providing a complete Kitchen in as little space as 5'9" x 7'0"!

Including

Sink
Range
Work Table
Broom Closet

Refrigerator
Linen Chest
Complete Pantry
Folding Ironing Board



"White" Duo-Unit Cabinet B

THE "WHITE" Duo-Unit Kitchen Cabinets are part of the famous line of "WHITE" Door Beds, Kitchen Cabinets, Dressing Cabinets, Ironing Boards and other Space-Saving Conveniences. Complete Catalog with typical floor plans will be sent free. Shows many ways of conserving space and reducing building costs.

The floor plan at the left shows the marvelous efficiency of the "White" Duo-Unit Cabinets and the many conveniences provided in a minimum of space. Write for complete information.

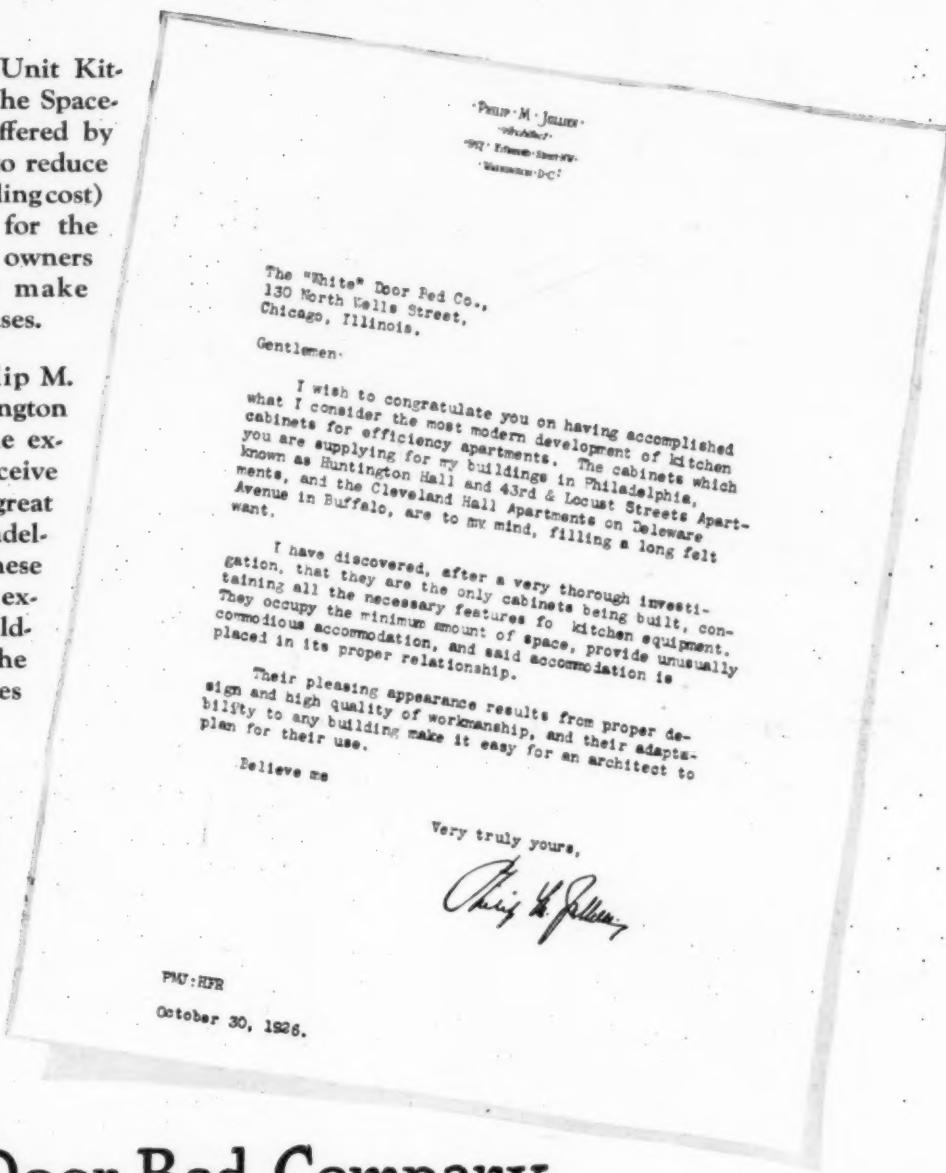
these Two "White" Cabinets

THESE "WHITE" Duo-Unit Kitchen Cabinets, like all the Space-Saving Conveniences offered by this company, are designed to reduce space (and consequently building cost) while increasing comfort for the tenants. They appeal to owners and tenants alike. They make rentals easy and prolong leases.

This letter from Mr. Phillip M. Jullien, prominent Washington Architect, is typical of the expressions of approval we receive constantly. Plans for three great apartment projects in Philadelphia and Buffalo specify these new "WHITE" Cabinets exclusively. Architects and builders alike pronounce them the most advanced conveniences for modern apartments.

Write for Catalog

Our new large catalog, including many typical floor plans, will be sent free. Our Engineering Department will gladly show you how "WHITE" Cabinets can be adapted to your buildings.



The "White" Door Bed Company

130 North Wells Street ~ Chicago, Ill.

SALES AGENTS IN ALL THE PRINCIPAL CITIES

"White" Duo-Unit Cabinets used in these great buildings



CLEVELAND HALL
Buffalo
Phillip M. Jullien, Arch.



43rd and LOCUST APARTMENTS
Philadelphia
Phillip M. Jullien, Arch.



HUNTINGTON HALL
Philadelphia
Phillip M. Jullien, Arch.



Make Room for Kitchen Progress

Illustration above shows residence of Mr. J. Paul Zens, 2891 Paxton Road, Shaker Heights, Ohio. Architect, Philip Lindsley Small, Cleveland, Ohio. Below: Interior view of kitchen with Lorain-equipped Dangler Gas Range.



One easy turn of the Lorain Red Wheel gives the housewife a choice of any measured and controlled oven heat for any kind of oven cooking or baking.



Unless the Regulator has a RED WHEEL it is NOT a LORAIN

THE provision of adequate space for a Lorain-equipped Gas Range of cooking capacity in proportion to the size of the household should be a major consideration in planning the kitchen.

Women examining new homes look for the Red Wheel that identifies the Lorain Self-regulating Oven, because it means perfect cooking, easy canning and leisure.

More than 1900 school and university domestic science departments use Lorain Red Wheel Ovens. Millions of women see the Red Wheel advertisements that appear continually in their favorite magazines.

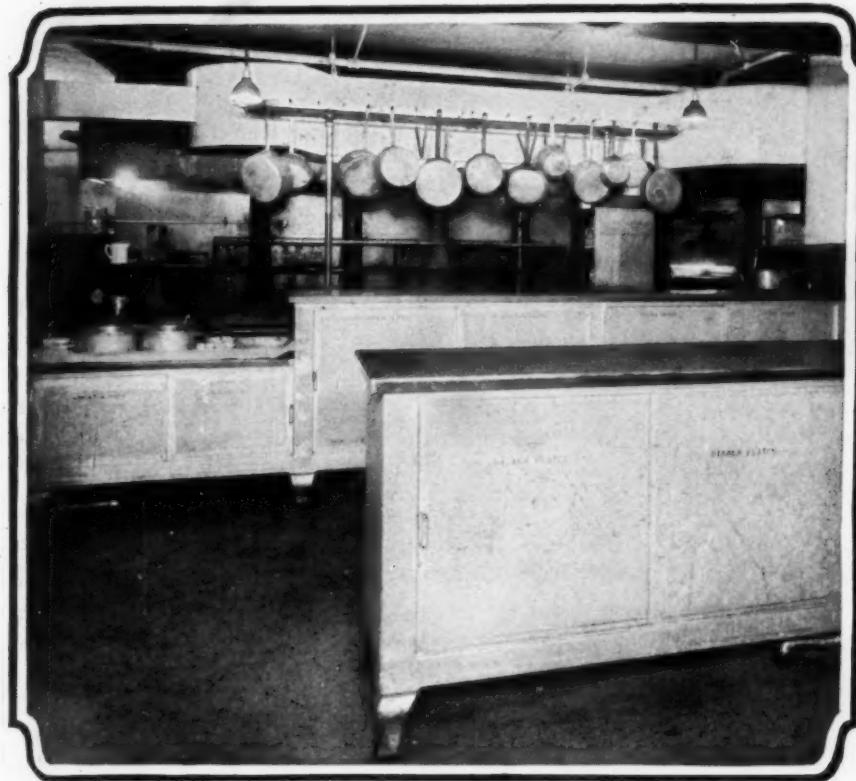
Lorain Red Wheel Ovens are built only in the following famous makes of Gas Ranges: Reliable, Clark Jewel, Dangler, Direct Action, New Process and Quick Meal. For specific data see Sweet's Catalog, 20th Edition, Pages 2769-2778 or send for our Handbook on Gas Ranges for Architects and Builders.

AMERICAN STOVE COMPANY

Largest Makers of Gas Ranges in the World

444 Chouteau Avenue . . . St. Louis, Mo.

LORAIN OVEN HEAT REGULATOR



The Morton House, Grand Rapids, Michigan, is a consistent user of "Van" Equipment. Illustrated here is a partial view of the "Van" Kitchen in this hotel.

Why Leading Hotels specify "Van" Equipment!

ECONOMY is always a first consideration—and it is a *lasting* one when you buy "Van" Equipment.

That's one of the reasons why leading hotels of every size specify "Van" Equipment every time. It is their assurance of low cost in the beginning and economy always. "Van" Equipment is really worth twice its cost because of the double service and satisfaction it provides.

Perhaps you are planning to replace part of your equipment—or entirely remodel your present kitchen. In either case, for the sake of economy and satisfaction, consult the House of Van.

The John Van Range Co.
EQUIPMENT FOR THE PREPARATION AND SERVING OF FOOD
Cincinnati

NEW ORLEANS
CLEVELAND

ATLANTA
CHICAGO

LOUISVILLE
DETROIT



The Morton House, Grand Rapids, Mich., one of the Mid-West's best known hotels.



A Memorial of the Past That is Built for the Future

Nowhere in the world can there be found the counterpart of the Elks National Memorial Headquarters Building in Chicago. It combines in one beautiful design the two functions of a War Memorial and the executive headquarters of a great national fraternity.

In a building designed to stand with all the endurance of the hills from which its marble walls were carved, how fitting was the selection of



Above—Another Atlantic installation, the Elks National Memorial Headquarters Building, Clinton and Russell, Architects; Lord Electric Company, Electrical Contractors.

Neptune brand Atlantic wires for the electrical circuits.

All three Atlantic brands—"Neptune," "Triton," and "Dolphin"—have been known to architects for over a quarter century. Their longevity and high dielectric strength are recognized

as the best insurance against wiring troubles in any building.

Samples and detailed specifications will gladly be sent to any architect or engineer.



Neptune—30% Hevea Rubber Compound
Triton—Intermediate 25% Hevea Rubber Compound
Dolphin—National Electric Code Standard Compound



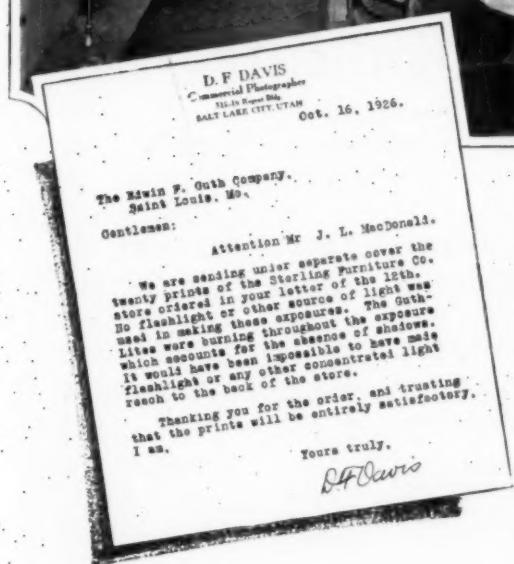
ATLANTIC INSULATED WIRE & CABLE COMPANY, Rome, N. Y.

ATLANTIC INSULATED WIRES AND CABLES

The Insulation is Cured Before Vulcanization



*The Picture
Tells the Story!*

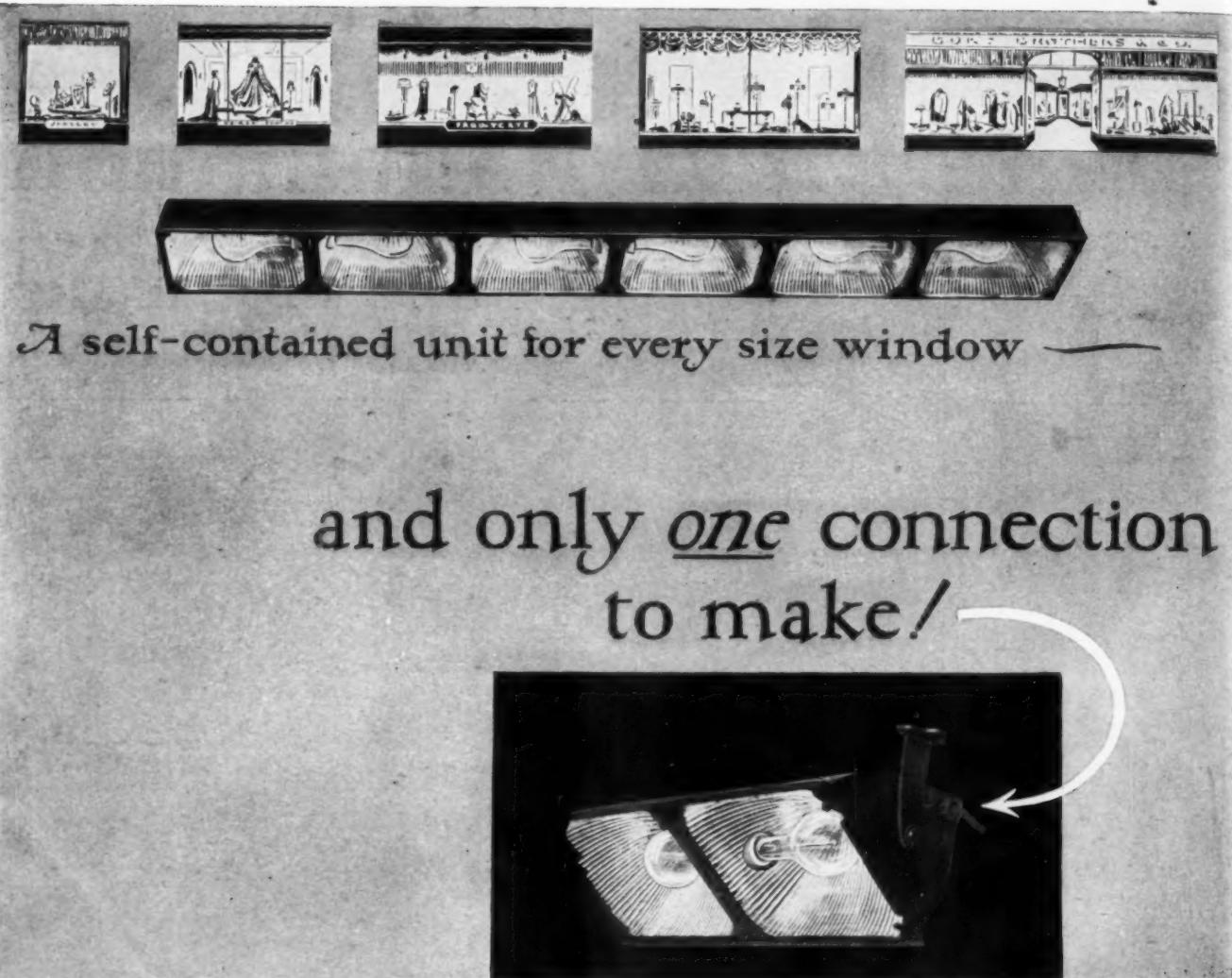


Study the wonderful illumination of this store. Note the absence of shadows. No glaring reflections from polished surfaces. The photo was taken entirely by the illumination from GuthLites, spaced the average distance apart, and is unretouched.

GuthLite gives a flood of diffused, controlled light. Adjustable reflector controls the rays vertically and horizontally. Wide light distribution. Write for regulation GuthLite folder with A. I. A. file number.

The EDWIN F. GUTH COMPANY
DESIGNERS - ENGINEERS - MANUFACTURERS
Lighting Equipment
ST. LOUIS, U.S.A.

GUTHLITE
Super-Illuminator



The New Silverlite Multilite

FOR economy and ease of installation, for greater efficiency of operation we have produced Multilite reflectors — the newest, most modern development in window lighting.

With either 2-4-6-8 or 10 light units Multilite comes ready to install with but one connection to make

through knockout in end of reflector.

The reflectors are the famous all metal Silverlite of highest efficiency.

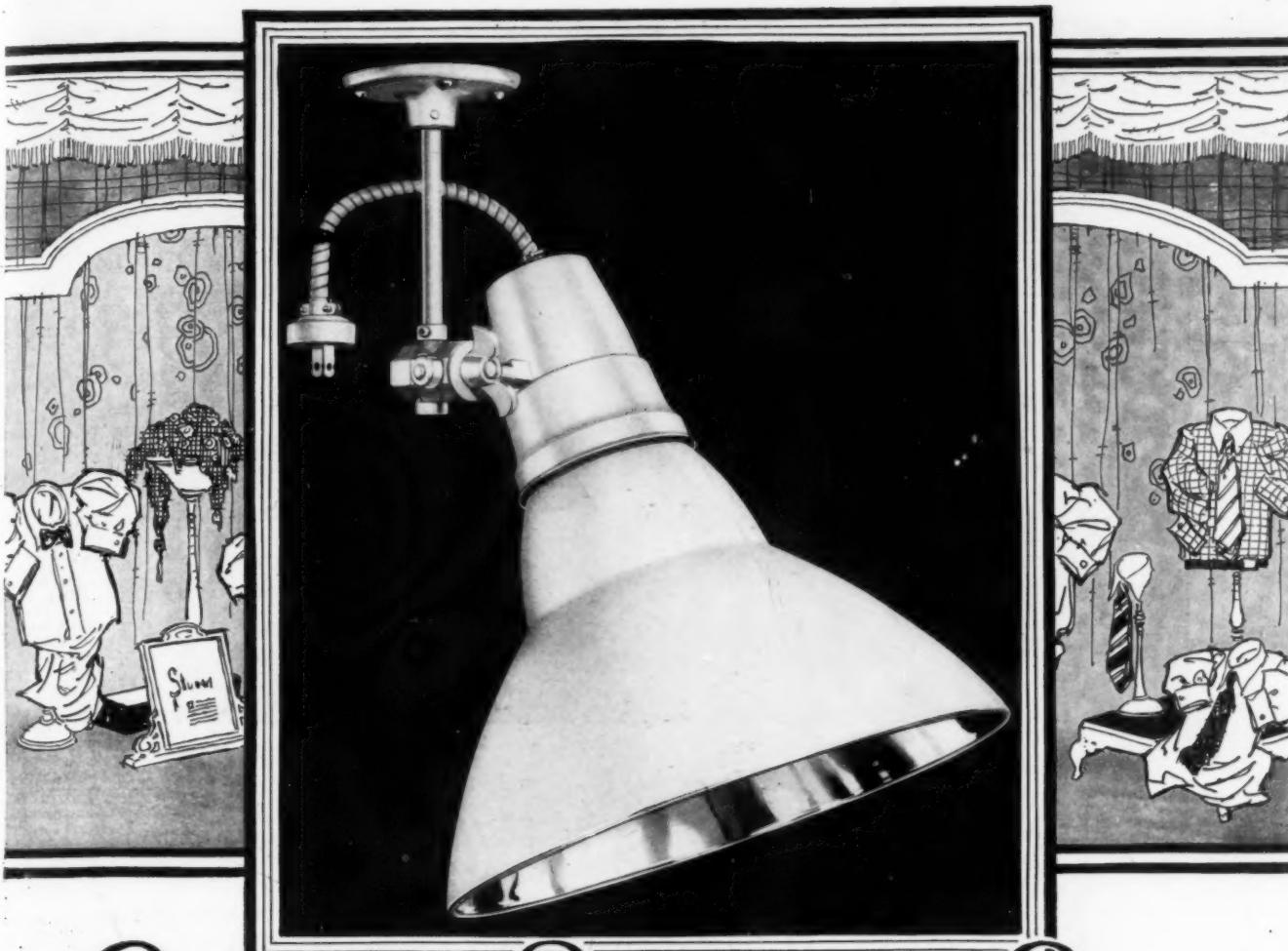
Adjustable to any window or condition Multilite comes ready to install. No parts to lose. Extra frames for screens unnecessary. Finish, Walnut Brown. Write for circular 79.

Established 1857

THE FRINK CO. INC.

241 Tenth Avenue, New York

Representatives in all principal cities



Gives a Stronger Spot

The new "Pittsburgh" Windo-Spot No. 500 is for intensive spot lighting where the user desires a stronger beam than is given by our Windo-Spot No. 200. It accommodates either 300 or 500 watt lamp. Gives a concentrating beam with candle-power maximum of 52,000, more than 100 candle-power per watt. Equipped with adjustable bracket for attaching to ceiling or show window or other supporting surface. Reflector may be tilted to any desired position and held there by a single thumb screw.

New "PITTSBURGH" Windo-Spot—No. 500

There are 44 reflectors in the "Pittsburgh" line—to meet every need in the lighting of show windows; for direct and indirect lighting; for cove lighting, flood lighting, etc. "Pittsburghs" are all guaranteed for five years, and their wonderful record proves that they stay bright. If your files do not contain "Pittsburgh" brochures on Show Window Lighting (A.I.A. File No. 31F14) and Cove Lighting (A.I.A. File No. 31F17) they will be sent on request.

PITTSBURGH REFLECTOR COMPANY

411 Bowman Building **Third and Ross Streets**
PITTSBURGH, PA.

REPRESENTATIVES IN 26 LEADING CITIES

PITTSBURGH SILVERED REFLECTORS STAY BRIGHT

The Shadow Chasers



Homeopathic Hospital Annex, Pittsburgh, Press C. Dowler, Pittsburgh, Architect. Lighted with Cremax Globes.

Ample Light without Glare

DOCTORS, internes and nurses must not be hampered by dim, insufficient light or light that glares. Mistakes in a hospital are costly.

For that reason, CREMAX GLOBES were chosen to light the new Homeopathic Hospital Annex in Pittsburgh. These globes, artistic as well as scientifically correct, shed a bountiful flood of light into the farthest corners. There is no Glare, no sharp Shadow. Light is diffused in all directions.

Patients, too, appreciate this gentle, even, abundant light. It is not tiring or nervewrecking to gaze at these rich chrome-tinted, gracefully-shaped globes.

CREMAX—a natural colored glass—is the newest development in illuminating glassware from the laboratories of the Macbeth-Evans Glass Company. It transmits a rich, warm, cream-colored quality of light, free from tones of green.

The Illuminating Engineering Department of Macbeth-Evans will gladly furnish any information you desire for the solution of lighting problems. You do not incur any obligation by making use of this service. MACBETH-EVANS GLASS CO. (Eastern Division), Dept. J, Charleroi, Pennsylvania.

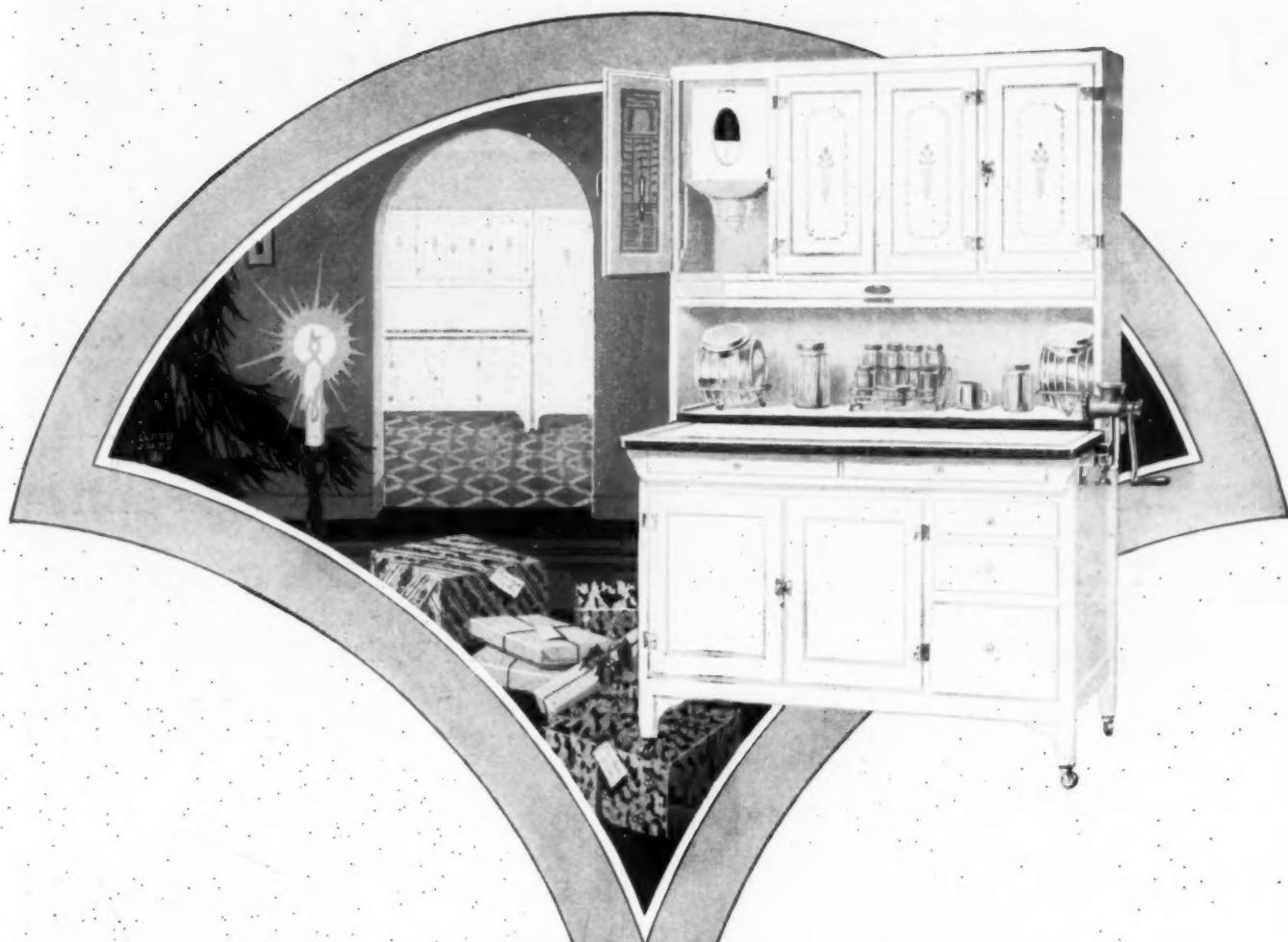


Cremax No. 435, attractive in design—chosen to light the Homeopathic Hospital Annex, Pittsburgh.

FOR BETTER

CREMAX
Globes

LIGHTING



Here is a thoughtful booklet

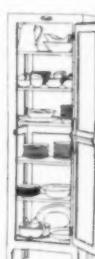
We want to send to every architect and home-builder in America a carefully prepared booklet which we now have ready for mailing, in which is interestingly set forth the need of taking the kitchen cabinet problem into consideration at the time the home-plans are made. Some architects are not thinking far ahead in this important matter of kitchen equipment. G. I. Sellers & Sons Company, Elwood, Indiana, will gladly mail to you a copy of this booklet upon your request, without cost and without obligation.

The cheapest kitchen equipment

As compared with built-in cupboarding, the modern kitchen cabinet, especially with the associated utility closet, is certainly more beautiful, more sanitary, and much more highly developed in labor-saving conveniences. It is also equally flexible because it can be combined with utility closets to fit any need. It costs less than built-in shelves, being made and finished by standardized methods as against slow hand work. No cupboarding, however elaborate, can possibly take the place of the modern kitchen cabinet.



SELLERS
KITCHEN CABINETS



SELLERS
UTILITY
CLOSET

SUCCESSFUL PROPERTIES

THE Straus Plan of Finance revolves around one simple principle—to lend only upon successful properties. The results of 44 years in underwriting first mortgage real estate securities proves the soundness of the principle, and is another reason why investor, architect, contractor and builder best can serve themselves by bringing their financing problems to S. W. STRAUS & CO.

We are always interested in loans of \$250,000 upward, either on completed buildings or structures to be built, *provided* that the undertaking is soundly conceived and embodies those factors which we all commonly recognize as making for success.

Write today for our booklet, "The Straus Plan of Finance", and direct your request to our

LOAN DEPARTMENT

S.W. STRAUS & CO.

Established 1882

Investment Bonds

Incorporated

STRAUS BUILDING
565 Fifth Ave. at 46th St.
NEW YORK

STRAUS BUILDING
Michigan Ave. at Jackson Blvd.
CHICAGO

STRAUS BUILDING
79 Post Street, SAN FRANCISCO

44 YEARS WITHOUT LOSS TO ANY INVESTOR

Selected List of Manufacturers' Publications

FOR THE SERVICE OF ARCHITECTS, ENGINEERS, DECORATORS, AND CONTRACTORS

The publications listed in these columns are the most important of those issued by leading manufacturers identified with the building industry. They may be had without charge, unless otherwise noted, by applying on your business stationery to *The Architectural Forum*, 383 Madison Ave., New York, or the manufacturer direct, in which case kindly mention this publication.

ACOUSTICS

The Celotex Co., Chicago.

Acousti-Celotex. 16 pp., $8\frac{1}{2} \times 11$ in. Illustrated brochure on a valuable material for facing walls and ceilings. Specifications and Details for application and decoration of Acousti-Celotex, 11 pp., $8\frac{1}{2} \times 11$ in.

John-Manville, Inc., Madison Ave. & 41st St., New York, N. Y. Architectural Acoustics. Booklet. 6 x 9 in. 24 pp. Illustrated. Treatise on the correction of architectural acoustics in Churches, schools, hospitals, office buildings and other places.

U. S. Gypsum Co., 205 W. Monroe St., Chicago, Ill. A Scientific Solution of an Old Architectural Problem. Folder 6 pp., $8\frac{1}{2} \times 11$ in. Describes Sabinitite Acoustical Plaster.

ASH HOISTS—ELECTRIC AND HAND POWER

Gillis & Geoghegan, 544 West Broadway, New York, N. Y. General Catalog. $8\frac{1}{2} \times 11$ in. 20 pp. Fully illustrated. Contains specifications in two forms (with manufacturers' name and without). Detail $\frac{3}{4}$ in. scale for each telescopic model and special material-handling section.

The Man-Saving Load Lifter. $5\frac{1}{2} \times 8\frac{1}{2}$ in. 8 pp. Illustrated. Describes G&G Telescopic and Non-Telescopic Hoists for handling material in factories.

BASEMENT WINDOWS

Truscon Steel Co., Youngstown, Ohio

Truscon Copper-Steel Basement Windows. Booklet, 8 pp., $8\frac{1}{2} \times 11$ in. Illustrated with installation details. Specifications and construction details.

BRICK

Acme Brick Company, Ft. Worth, Texas.

Series No. 1

Architectural designs rendered in Acme Brick. Booklet 11 x $8\frac{1}{2}$ in. Illustrated. A series of 48 photogravures showing architectural designs rendered in Acme brick. Illustrations show the various types of buildings erected in the Southwest in recent years. Sent free to architects applying on their office stationery.

American Face Brick Association, 1751 Peoples Life Bldg., Chicago, Ill.

Architectural Details in Brickwork. Series One, Two and Three. Each series consists of an indexed folder case to fit standard vertical letter file, containing between 30 and 40 half-tones in brown ink on fine quality paper. These collections are inspiring aids to all designers. Sent free to architects who apply on their office stationery; to others, 50 cents for each series. Size $8\frac{1}{2} \times 11$ in.

English Precedent for Modern Brickwork. A book of plates and measured drawings of Tudor and Gothic brickwork with a few recent variations of modern architects in the spirit of the old work. Price \$2.00. 100 pp. Illustrated. $8\frac{1}{2} \times 11$ in. Brickwork in Italy. 298 pages size $7\frac{1}{2} \times 10\frac{1}{2}$ in., an attractive and useful volume on the history and use of brick in Italy from ancient to modern times, profusely illustrated with 69 line drawings, 300 half-tones, and 20 colored plates with a map of modern and XII century Italy. Bound in linen will be sent postpaid upon receipt of \$6.00. Half Morocco, seven dollars.

BUILDING FINANCE

S. W. Straus & Co., 565 Fifth Ave., New York, N. Y.

The Straus Plan of finance is an attractively prepared booklet of 30 pages 6 x 9 in. in size, which summarizes the plan under which S. W. Straus & Co. finance modern office building, apartment house, residential hotel and other types of construction. It is illustrated with sketches of buildings throughout the United States which secure bond issues purchased by S. W. Straus & Co.

BUILDING, STEEL PRODUCTS FOR

Massillon Steel Joist Co., Canton, Ohio.

Massillon Bar Joists. Pamphlet. $8\frac{1}{2} \times 11$ in. Illustrated. Information descriptive of Massillon Bar Joist Permanent Fireproof Floor and Roof Construction, with cuts of typical installations. See classification "Steel Joists" for other publications intended for the architect designing this construction.

Massillon Metal Lath. Pamphlet. $8\frac{1}{2} \times 11$ in. Illustrated. Includes tabulations and illustrations covering recommendations for the use of various weights and kinds of metal lath and lath accessories.

Massillon Roof Trusses. Pamphlet. $8\frac{1}{2} \times 11$ in. 8 pp. Illustrated. Shows typical installations with 12 sizes of Standardized Curved Chord Steel Roof Trusses for spans of from 40 to 60 feet, together with details, dimensions, and safe loading tables.

Massillon Bank Vault Reinforcing. Pamphlet. $8\frac{1}{2} \times 11$ in. 8 pp. Illustrated. Gives details of typical installations for a line of standardized steel vault reinforcing frames.

National Steel Fabric Co., Pittsburgh, Pa.

Reinforced Concrete Floors. Booklet, $8\frac{1}{2} \times 11$ in. Illustrated. Detailed information on concrete floor slab reinforcement, with valuable engineering data and tables.

Truscon Steel Company, Youngstown, Ohio.

Truscon Data Book. Catalog. $3\frac{1}{2} \times 6$ in. 128 pp. Illustrated. Contains complete information with illustrations on Truscon reinforcing steel, steel windows, metal lath, standard buildings, concrete inserts, steel joists, pressed steel stamping and chemical products.

CEMENT

Carney Company, The, Mankato, Minn.

What Twelve Men Said About Carney. Booklet, $8\frac{1}{2} \times 11$ in., Illustrated. Opinions of well known architects and builders of Carney Cement used for mortar.

Louisville Cement Co., 315 Guthrie St., Louisville, Ky. BRIXMENT for Perfect Mortar. Self-filing handbook $8\frac{1}{2} \times 11$ inches. 16 pp. Illustrated. Contains complete technical description of BRIXMENT for brick, tile and stone masonry, specifications, data and tests.

Sandusky Cement Co., Dept. F., Cleveland, Ohio. Medusa White Portland Cement. Booklet, $8\frac{1}{2} \times 11$ in., 32 pp., Illustrated. Complete data on cement, plain and waterproofed.

CONCRETE BUILDING MATERIALS

Concrete Surface Corporation, 342 Madison Ave., New York. Binding Surfaces on Concrete. Booklet, 12 pp., 8×11 in., illustrated. Deals with an important detail of building.

CONCRETE COLORINGS

A. C. Horn Company, Long Island City, N. Y.

Keramic Catalog. Booklet. $8\frac{1}{2} \times 11$ in. 26 pp. A magnificent brochure, illustrated in color, describing a valuable line of specialties for use with concrete floors—colorings, hardeners, waterproofing, etc.

CONDUIT

Johns-Manville, Inc., New York.

Orangeburg Fibre Conduit. Booklet. $8\frac{1}{2} \times 11$ in. 8 pp. Details regarding a valuable form of conduit. Orangeburg System of Under Floor Duct. Booklet. $8\frac{1}{2} \times 11$ in. 32 pp.

National Metal Molding Co., 1113 Fulton Building, Pittsburgh, Pa. Bulletin of all National Metal Molding Products. In correspondence folder. $9\frac{1}{2} \times 11\frac{1}{2}$ in. Sheraduct. Circular. 5×8 in. Illustrated. Flaxsteel. Circular. 5×8 in. Illustrated.

CONSTRUCTION, FIREPROOF

Massillon Steel Joist Co., Canton, Ohio.

Massillon Bar Joists. Pamphlet. $8\frac{1}{2} \times 11$ in. 8 pp. Illustrated. Contains general information, with illustrations, regarding obtaining Permanent Fireproof Floor and Roof Construction by using Massillon Bar Joists. See classification "Steel Joists" for other publications intended for architects designing this construction.

Massillon Metal Lath. Pamphlet. $8\frac{1}{2} \times 11$ in. 8 pp. Illustrated. Contains cuts, illustrations and recommendations for the use of various weights and kinds of metal lath for fireproofing columns, beams and steel joists.

National Fire Proofing Co., 250 Federal St., Pittsburgh, Pa. Standard Fire Proofing Bulletin 171. $8\frac{1}{2} \times 11$ in. 32 pp. Illustrated. A treatise on fireproof floor construction.

National Steel Fabric Co., Pittsburgh, Pa. Fireproofing Structural Steel. Booklet $8\frac{1}{2} \times 11$ in. Illustrated. Information on concrete fireproofing and reinforcement of beams, girders, and columns. Includes details and tables.

Northwestern Expanded Metal Co., 1224 Old Colony Building, Chicago, Ill. Northwestern Expanded Metal Products. Booklet. $8\frac{1}{2} \times 10\frac{1}{4}$ in. 16 pp. Fully illustrated, and describes different products of this company, such as Kno-burn metal lath, 20th Century Corrugated, Plaster-Sava and Longspan lath channels, etc.

DAMPROOFING

Philip Carey Co., Lockland, Cincinnati, Ohio.

Architects' Specifications for Carey Built-Up Roofing. Booklet. $8 \times 10\frac{1}{4}$ in. 24 pp. Illustrated. Complete data to aid in specifying the different types of built-up roofing to suit the kind of roof construction to be covered.

Carey Built-Up Roofing for Modern School Buildings. Booklet. $8 \times 10\frac{1}{4}$ in. 32 pp. Illustrated. A study of school buildings of a number of different kinds and the roofing materials adapted for each.

A. C. Horn Company, Long Island City, N. Y. Waterproofing. $9\frac{1}{2} \times 11\frac{1}{2}$ in. Folder. Contains folders giving data on excellent waterproofing and dampproofing materials.

Sonneborn Sons, Inc., L., 116 Fifth Ave., New York. Specification Sheet, $8\frac{1}{2} \times 11$ in. Descriptions and specifications of compounds for dampproofing interior and exterior surfaces.

Toch Brothers, 110 East 42nd Street, New York City. Specifications for Dampproofing, Waterproofing, Enameling and Technical Paint. Complete and authoritative directions for use of an important line of materials.

DOORS AND TRIM, METAL

The American Brass Company, Waterbury, Conn.

Anaconda Architectural Bronze Extruded Shapes. Brochure, 180 pp., $8\frac{1}{2} \times 11$ in., illustrating and describing more than 2,000 standard bronze shapes of cornices, jamb casings, mouldings, etc.

Art Metal Construction Co., Jamestown, N. Y. Hollow Metal Doors and Trim. Portfolio containing several brochures and a catalog of 159 pages and plates $8\frac{1}{2} \times 11\frac{1}{4}$ in.

SELECTED LIST OF MANUFACTURERS PUBLICATIONS—Continued from page 135

DOORS AND TRIM, METAL—Continued

The Compound & Pyrono Door Company, St. Joseph, Mich.
Pyrono Handbook for Architects and Contractors. 8½ x 11 in. 16 pp. Contains full information regarding Pyrono Fireproof Veneered Doors and Trim, with complete details and specifications.

Pyrono details in sheet form for tracing.

Richards-Wilcox Mfg. Co., Aurora, Ill.

Fire Doors and Hardware, Booklet. 8½ x 11 in. 64 pp. Illustrated. Describes entire line of tin-clad and corrugated fire doors, complete with automatic closers, track hangers and all the latest equipment—all approved and labeled by Underwriters' Laboratories.

DUMBWAITERS

Sedgwick Machine Works, 151 West 15th St., New York.

Catalog and Service Sheets. Standard specifications, plans and prices for various types, etc. 4½ x 8½ in. 60 pp. Illustrated.

ELECTRICAL EQUIPMENT

Frank Adam Electric Company, St. Louis, Mo.

Catalog No. 35-1925. Panelboards—Steel Cabinets. 7½ x 10½ in. 64 pp. Illustrates and describes sectionally built panelboards, an important line of steel cabinets, and the fittings which go with them.

Hart & Hegeman Mfg. Co., The, 342 Capitol Ave., Hartford, Conn. The Line of Least Resistance. Catalog R. 10½ x 7½ in. 152 pp. Illustrated. Complete display of switches, sockets, accessories and wiring devices with brief description.

A new H & H Switch. Leaflet. 3½ x 6 in. 4 pp. Illustrated. Illustrates a new H & H composition base push switch of De Luxe quality.

Tumbler Switches. Booklet. 3½ x 6 in. 6 pp. Illustrated. Shows complete line of H & H Tumbler Switches.

Architects' Handbook of H & H Wiring Devices. Booklet 8½ x 11 in. 16 pp. "Written by an Architect for Architects."

H. & H. Electrical Wiring Devices, Catalog S. 8½ x 10 in., 123 pp. Lists and illustrates details of equipment.

Kohler Co., Kohler, Wis.

Principle and Proof. Booklet. 48 pp. Illustrated. Describes a standard voltage automatic electric power and light plant for isolated homes, for emergency auxiliary or permanent lighting in stores, theaters, churches and schools.

Pick & Company, Albert, 208 West Randolph St., Chicago, Ill.

School Cafeterias. Booklet. 9 x 6 in. Illustrated. The design and equipment of school cafeterias with photographs of installation and plans for standardized outfitts.

Kitchen Equipment. Booklet. 9 x 6 in. Illustrated. Photographs and descriptions of Hotel, Club and Hospital kitchens with treatise on plans and equipment of efficient kitchens.

Electric Kitchen Equipment. Booklet. 8½ x 11½ in. Illustrated. Photographs and descriptions of PIX "Master-Made" ranges, ovens, etc., for Hotels and Restaurants.

Western Electric Co., 195 Broadway, New York, N. Y.

Western Electric Inter-Phones for Apartment Houses. Booklet. 5½ x 6½ in. 16 pp. Illustrated. Illustrates and describes use of Inter-Phones in Apartment Houses.

Installing and Maintaining Western Electric Inter-Phones. In addition to giving general information on layout of system, details are supplied on individual Inter-Phone Systems, listing battery and wiring requirements.

ELEVATORS

Otis Elevator Company, 260 Eleventh Ave., New York, N. Y. Otis Push Button Controlled Elevators. Descriptive leaflets. 8½ x 11 in. Illustrated. Full details of machines, motors and controllers for these types.

Otis Geared and Gearless Traction Elevators of All Types. Descriptive leaflets. 8½ x 11 in. Illustrated. Full details of machines, motors and controllers for these types.

Escalators. Booklet. 8½ x 11 in. 22 pp. Illustrated. Describes use of escalators in subways, department stores, theaters and industrial buildings. Also includes elevators and dock elevators.

Richards-Wilcox Mfg. Co., Aurora, Ill.

Elevators. Booklet. 8½ x 11 in. 24 pp. Illustrated. Describes complete line of "Ideal" elevator door hardware and checking devices, also automatic safety devices.

Sedgwick Machine Works, 151 West 15th St., New York, N. Y.

Catalog and descriptive pamphlets, 4½ x 8½ in. 70 pp. Illustrated. Descriptive pamphlets on hand power freight elevators, sidewalk elevators, automobile elevators, etc.

ENAMELING

Toch Brothers, 110 East 42nd Street, New York City.

Specifications for Dampproofing, Waterproofing, Enameling and Technical Painting. Complete and authoritative directions for use of an important line of materials.

FIRE DOORS—See Doors, Windows and Trim, Metal

FIREPROOFING—See also Construction, Fireproof

Concrete Engineering Co., Omaha, Nebr.

"Handbook of Fireproof Construction." Booklet, 53 pp. 8½ x 11 in. Valuable work on methods of fireproofing.

The General Fireproofing Company, Youngstown, Ohio.

Fireproofing Handbook, 8½ x 11 in. 64 pp. Illustrated. Gives methods of construction, specifications, data on Herringbone metal lath, steel tile, Trussit solid partitions, steel lumber, self-centering formless concrete construction.

FLOOR HARDENERS (CHEMICAL)

Master Builders Company, Cleveland, Ohio.

Concrete Floor Treatments; Hardening, Dustproofing, Water-proofing. Sheets in loose index file, 9 x 12 in. Illustrated work on concrete hardening, coatings, accelerators and freeze proofers.

Sonneborn Sons, Inc., L., 116 Fifth Ave., New York, N. Y.

Lapidolite, the liquid chemical hardener. Complete sets of specifications for every building type in which concrete floors are used, with descriptions and results of tests.

FLOORS—STRUCTURAL

Truscon Steel Co., Youngstown, Ohio

Truscon Locktyle. Booklet, 8½ x 11 in., 8 pp. Illustrations of material and showing methods of application. Truscon Floretyle Construction. Booklet, 8½ x 11 in., 16 pp. Illustrations of actual jobs under construction. Lists of properties and information on proper construction. Proper method of handling and tables of safe loads.

FLOORING

Armstrong Cork & Insulation Co., 132 24th St., Pittsburgh, Pa.

Linotile Floors for Public and Semi-Public Buildings, 7½ x 10½ in. 36 pp.

Linotile Floors for Residences. 7½ x 10½ in. 32 pp.

Armstrong's Cork Tile. Revised Edition. Booklet. 24 pp. 5 x 7 in. Illustrated in color. Contains complete specifications.

Armstrong Cork & Insulation Co., Pittsburgh, Pa.

Armstrong's Cork Tile Floors. Booklet, 7½ x 10½ in. 30 pp. An illustrated work on cork flooring.

Armstrong Cork Co. (Linoleum Division), Lancaster, Pa.

Armstrong's Linoleum Floors. Catalog. 8½ x 11 in. 36 pp. Color plates. A technical treatise on linoleum, including table of gauges and weights and specifications for installing linoleum floors.

Decorative Linoleum Floors. Portfolio of Color Plates. 11½ x 15 in. 16 pp. Color plates.

Armstrong's Linoleum Pattern Book, 1925. Catalog. 3½ x 6 in. 200 pp. Color Plates. Reproduction in color of all patterns of linoleum and cork carpet in the Armstrong line.

Quality Sample Books. Two books, 3½ x 5½ in. Showing all gauges and thicknesses in the Armstrong line of linoleums. Detailed Directions for Laying and Caring for Linoleum. Handbook, 5 x 7 in. 48 pp. Instructions for linoleum layers and others interested in learning most satisfactory methods of laying and taking care of linoleum.

Business Floors. Booklet. 6 x 9 in. 48 pp. Illustrated in color. Explains use of linoleum for offices, stores, etc., with reproductions in color of suitable patterns, also specifications and instructions for laying.

Barber Asphalt Co., Philadelphia.

Specifications for Applying Genasco Asphalt Mastic. Booklet. 8 x 10½ in. Directions for using Asphalt Mastic for flooring.

Blabon Company, Geo. W., Nicetown, Philadelphia, Pa.

Planning the Color Schemes for Your Home. Brochure illustrated in color; 36 pp., 7½ x 10½ in. Gives excellent suggestions for use of color in flooring for houses and apartments. Handy Quality Sample Folder of Linoleums. Gives actual samples of "Battleship Linoleum," cork carpet, "Feltex," etc.

Blabon's Linoleum. Booklet illustrated in color; 128 pp., 3½ x 8½ in. Gives patterns of a large number of linoleums.

Blabon's Plain Linoleum and Cork Carpet. Gives quality samples, 3 x 6 in. of various types of floor coverings.

Bonded Floors Company, Inc., 1421 Chestnut St., Philadelphia, Pa. A series of booklets, with full color inserts showing standard colors and designs. Each booklet describes a resilient floor material as follows:

Battleship Linoleum. Explains the advantages and uses of this durable, economical material.

Marble-ized (Cork Composition) Tile. Complete information on cork-composition marble-ized tile and the many artistic effects obtainable with it.

Treadlite (Cork Composition) Tile. Shows a variety of colors and patterns of this adaptable cork composition flooring.

Natural Cork Tile. Description and color plates of this super-quiet, resilient floor.

Practical working specifications for installing battleship linoleum, cork composition tile and cork tile.

Carter Bloxondend Flooring Co., Keith & Perry Bldg., Kansas City, Mo.

Bloxondend Flooring. Booklet 3½ x 6½ in. 20 pp. Illustrated. Describes uses and adaptability of Bloxondend Flooring to concrete, wood or steel construction, and advantages over loose wood blocks.

File Folder, 9¾ x 8¾ in. For use in connection with A. I. A. system of filing. Contains detailed information on Bloxondend Flooring in condensed, loose-leaf form for specification writer and drafting room. Literature embodied in folder includes standard Specification Sheet covering the use of Bloxondend in general industrial service and Supplementary Specification Sheet No. 1, which gives detailed description and explanation of an approved method for installing Bloxondend in gymnasiums, armories, drill rooms and similar locations where maximum resiliency is required.

Norton Company, Worcester, Mass.

Filing Folder. 8½ x 11¾ in. 27 pp. Illustrated with drawings. Specification data for architects.

Ritter Lumber Co., W. M., Columbus, Ohio.

Ritter Oak Flooring, brochure 5 x 7 in. 31 pp. Illustrated. Excellent data on floors of different kinds and of various woods. Beauty Begins in the Forest. Large illustrated folder on modern flooring.

U. S. Gypsum Co., Chicago.

Pyroflex Floor Tile. Folder. 8½ x 11 in. Illustrated. Data on building floors of hollow tile, and tables on floor loading.

U. S. Rubber Co., 1790 Broadway, New York.

Period Adaptations for Modern Floors. Brochure. 8 x 11 in. 60 pp. Richly illustrated. A valuable work on the use of rubber tile for flooring in interiors of different historic styles.

FOLDING PARTITIONS

Irving Hamlin, Evanston, Ill.

The Evanston Sound-Proof Door. Brochure. 8½ x 11 in. 8 pp. Full data on Hamlinized Folding Partitions and Evanston Sound-Proof Doors.

Wilson Corporation, J. G., 11 East 38th Street, New York, N. Y.

Sectionfold and Rolling Partitions and Hygienic School Wardrobes. Catalog No. 37. Booklet 8½ x 11 in. 40 pp. Illustrated. Describes the uses of rolling and sectional partitions, particularly in schools and churches. Also the installation of Wilson school wardrobes.



Residence at 88 Robsart Road, Kenilworth, Illinois. Frederick Stanton, Architect. Celotex Insulating Lumber used as roof insulation and as sheathing and insulation.

“Celotex adds great strength”

Frederick Stanton, Chicago, specifies this insulation because it builds stronger as it insulates . . . and adds little or nothing to building costs.

USED as sheathing, replacing wood lumber and building paper, Celotex Insulating Lumber gives you several important advantages over wood. It provides the insulation needed back of wood siding, shingle, brick or stucco exteriors at no added building cost.

This lumber, made from the tough fibres of cane, has a thermal conductivity of only 0.33 B.t.u. per hr., per sq. ft., per °F., per inch thickness. It is sound-deadening, scientifically sterilized and waterproofed.

Celotex also builds a stronger house. Mr. Stanton has used Celotex in many ways in his houses and writes: “Celotex not only produces the insulating results claimed for it, but also adds great strength and

stiffness to the framework of the building.”

Numerous tests by Robert W. Hunt and Company, universities and other authorities also prove that the resistance of Celotex to lateral distortion in wall sections is several times that of horizontal wood sheathing. That is because Celotex is applied in large boards which afford a greater angle of bracing to the wall framework than the narrow wood boards.

Celotex is also used to replace lath on inside walls and ceilings. It bonds perfectly with gypsum or wood fibre plaster, forming stronger walls than lath and plaster, free from lath marks and far less apt to crack or stain. This

use of Celotex costs a few cents more per yard . . . but gives advantages well worth the difference.

In the roof, either over or under the rafters, Celotex provides insulation where it is most needed at but slightly added cost.

All of these uses are approved by the Investigating Committee of Architects and Engineers, New York, when Celotex is applied in accordance with our specifications.

We have prepared portfolios of detail sheets in A. I. A. bulletin form which contain specifications and detail drawings for numerous applications of Celotex. May we send you one?

THE CELOTEX COMPANY, Chicago, Ill.
Mills: New Orleans, La.

Branch Sales Offices in many principal cities
(See telephone books for addresses)

Canadian Representatives:
Alexander Murray & Co., Limited
Montreal, Toronto, Halifax, Winnipeg, Vancouver

CELOTEX
INSULATING LUMBER

SELECTED LIST OF MANUFACTURERS PUBLICATIONS—Continued from page 136

FURNITURE

American Seating Co., 14 E. Jackson Blvd., Chicago, Ill.
Ars Ecclesiastica Booklet. 6 x 9 in. 48 pp. Illustrations of church fittings in carved wood.
Theater Chairs. Booklet. 6 x 9 in. 48 pp. Illustrations of theater chairs.
Kensington Mfg. Company, Showrooms, 41 west 45th St., New York. Illustrated booklet indicative of the scope, character and decorative quality of Kensington Furniture, with plan of co-operation with architects, sent on request.
Photographs and full description of hand-made furniture in all the period styles, furnished in response to a specific inquiry.
White Door Bed Company, The, 130 North Wells Street, Chicago, Ill. Booklet. 8 1/2 x 11 in. 20 pp. Illustrated. Describes and illustrates the use of "White" Door Bed and other space-saving devices.

GARDEN ACCESSORIES

Davey Tree Expert Company, The, 907 Elm St., Kent, Ohio.
When Your Trees Need The Tree Surgeon. Booklet. 16 pp. 8 x 9 1/2 in. Illustrated. Lists and explains a number of serious tree troubles of common occurrence; contrasts the scientific methods used by properly trained and conscientious men to remedy these troubles with the work of unscrupulous or untrained men.

GLASS CONSTRUCTION

Mississippi Wire Glass, 220 Fifth Avenue, New York.
Mississippi Wire Glass. Catalog. 3 1/2 x 8 1/2 in. 32 pp. Illustrated. Covers the complete line.

GRATINGS

The Tri-lok Company, 5515 Butler Street, Pittsburgh, Pa.
What a Difference Three Locks Make. Folder. 4 pp., 8 1/2 x 11 in. Deals with a means of holding slender members of metal in accurate alignment.

GRILLES

The Tri-lok Company, 5515 Butler Street, Pittsburgh, Pa.
What a Difference Three Locks Make. Folder. 4 pp., 8 1/2 x 11 in. Deals with a means of holding slender members of metal in accurate alignment.
Wickwire Spencer Steel Co., Inc., 41 East 42nd St., New York.
Clinton Grilles. Booklet. 9 x 11 in. 12 pp. A brochure on metal grilles, particularly for use over heating radiators.

HARDWARE

P. & F. Corbin, New Britain, Conn.
Early English and Colonial Hardware. Brochure, 8 1/2 x 11 in. An important illustrated work on this type of hardware.
Cutler Mail Chute Company, Rochester, N. Y.
Cutler Mail Chute Model F. Booklet. 4 x 9 1/2 in. 8 pp. Illustrated.
Earle Hardware Mfg. Co., 2369 E. 51st St., Los Angeles.
Catalog No. A-3. 155 pp., 6 1/2 x 10 1/2 in. General catalog of fine hardware for different uses.
McKinney Mfg. Co., Pittsburgh, Pa.
McKinney Complete Garage Hardware Sets. Catalog. 6 1/2 x 10 in. 20 pp. Illustrated. Describes full line of complete garage hardware sets for all kinds of entrances, with views of typical entrances and sketches.
McKinney Hinges and Butts. General Catalog. 6 1/2 x 10 in. Illustrates and describes complete line of McKinney wrought builders' hardware products, including hinges, butts, door hangers and track, latches, garage hardware and specialties.
Richards-Wilcox Mfg. Co., Aurora, Ill.
Distinctive Garage Door Hardware. Booklet. 8 1/2 x 11 in. 65 pp. Illustrated. Complete information accompanied by data and illustrations on different kinds of garage door hardware.
Sargent & Company, New Haven, Conn.
Details to Which Standard Hardware Can Be Applied. Booklet. 6 pp., 9 x 12 in. Illustrated. Treats with diagrams, portions of doors and windows to which hardware can be applied.
Sargent Locks and Hardware. Bound volume, 534 pp., 9 x 12 in., illustrated. Complete catalog of Sargent line of hardware.

HEATING EQUIPMENT

American Blower Co., 6004 Russell Street, Detroit.
Heating and Ventilating Utilities. A binder containing a large number of valuable publications, each 8 1/2 x 11 in., on these important subjects.
American Radiator Company, The, 40 West 40th St., N. Y. C.
Ideal Type "A" Heat Machine. Catalog 7 1/2 x 10 1/2 in. 32 pp. Illustrated in 4 colors. A brochure of high-efficiency heating apparatus for residences and commercial buildings.
Ideal Water Tube Boilers. Catalog 7 1/2 x 10 1/2 in. 32 pp. Illustrated in 4 colors. Data on a complete line of Heating Boilers of the Water Tube type.
Ideal Smokeless Boilers. Catalog 7 1/2 x 10 1/2 in. 32 pp. Illustrated in 4 colors. Fully explains a boiler free from the objection of causing smoke.
Ideal Boilers for Oil Burning. Catalog 5 1/2 x 8 1/2 in. 36 pp. Illustrated in 4 colors. Describing a line of Heating Boilers especially adapted to use with Oil Burners.
Corto—The Radiator Classic. Brochure 5 1/2 x 8 1/2 in. 16 pp. Illustrated. A brochure on a space-saving radiator of beauty and high efficiency.
Ideal Arcola Radiator Warmth. Brochure 6 1/2 x 9 1/2 in. Illustrated. Describes a central all-on-one-floor heating plant with radiators for small residences, stores, and offices.
James B. Clow & Sons, 534 S. Franklin St., Chicago, Ill.
Gasteam. Catalog. 6 x 9 in. 16 pp. Illustrated. New radiator using gas for fuel.
C. A. Dunham Company, 450 East Ohio Street, Chicago, Ill.
Dunham Radiator Trap. Bulletin 101. 8 x 11 in. 12 pp. Illustrated. Explains working of this detail of heating apparatus.
Dunham Packless Radiator Valves. Bulletin 104. 8 x 11 in. 8 pp. Illustrated. A valuable brochure on valves.
Dunham Return Heating System. Bulletin 109. 8 x 11 in. Illustrated. Covers the use of heating apparatus of this kind.

HEATING EQUIPMENT—Continued

Dunham Vacuum Heating System. Bulletin 110. 8 x 11 in. 12 pp. Illustrated.
Excelso Specialty Works, 119 Clinton St., Buffalo, N. Y.
Excelso Water Heater. Booklet. 12 pp. 3 x 6 in. Illustrated. Describing the new Excelso method of generating domestic hot water in connection with heating boilers. (Firepot Coil eliminated.)
The Fulton Company, Knoxville, Tenn.
Sylphon, Temperature Regulators. Bulletin T-103. 8 1/2 x 11 in. 16 pp. Complete data on Sylphon temperature regulators for air and liquids. Catalog 100, complete line Sylphon Heating Specialties.
Damper Regulators. Air and Vent Valves. Catalog No. 100. 3 1/2 x 6 1/2 in. Sylphon Damper Regulators for steam, hot water and vapor systems. Sylphon Air and Vent Valves.
Illinois Engineering Co., Racine Ave., at 21st St., Chicago, Ill.
Vapor Heat Bulletin 21. 8 1/2 x 11 in. 32 pp. Illustrated. Contains new and original data on Vapor Heating. Rules for computing radiation, pipe sizes, radiator tappings. Steam table showing temperature of steam and vapor at various pressures, also description of Illinois Vapor Specialties.
International Heater Company, Utica, N. Y.
International Economy Blue Front Warm Air Furnace. Brochure, 23 pp., 7 1/2 x 10 1/2 in. A valuable publication dealing with an important type of heating.
International Carton Self Cleaning Warm Air Furnaces. Booklet, 31 pp., 7 1/2 x 10 1/2 in. Illustrated. Complete data on warm air heating.
International Economy Boilers. Booklet, 36 pp., 7 1/2 x 19 1/2 in. Deals with the vital matter of boilers.
International Economy Smokeless Boilers. Brochure, 40 pp., 7 1/2 x 10 1/2 in. Illustrated. Discusses an important type of smokeless boiler.
International Hot Water Supply Boilers. Booklet, 8 pp., 7 1/2 x 10 1/2 in. Data regarding boilers for supplying hot water.
Johnson Service Company, 149 Michigan St., Milwaukee, Wis.
Regulation of Temperature and Humidity. Booklet. 11 1/2 x 8 1/2 in. 64 pp. Illustrated. Describes Johnson system of pneumatic automatic regulation of temperature and humidity, and illustrates thermostats, valves, air compressors, dampers and other parts.
Johnson Electric Thermostats, Valves and Controllers. Booklet. 6 1/2 x 3 1/2 in. 24 pp. Illustrated. Excellent plates showing electric thermostats and controllers.
Kelsey Heating Company, James St., Syracuse, N. Y.
Booklet No. 5, 4 x 9 in. 32 pp. Illustrated. A dealers' booklet showing the Kelsey Warm Air Generator Method of warming and distributing air. Gives dimensions, heating capacities, weights, kind of coal recommended and shows the mechanical and gravity systems of heating homes, churches and schools.
Monroe Pipeless Booklet, 4 1/2 x 8 in. 20 pp. Illustrated.
Monroe Tubular Heater. Booklet. 4 1/2 x 8 in. 20 pp. Illustrated. General booklet giving capacities, dimensions, weights, etc.
Syracuse Pipeless Booklet. 4 1/2 x 8 in. 12 pp. Illustrated. General booklet giving sizes and capacities.
Kewanee Boiler Co., Kewanee, Ill.
Kewanee on the Job. Catalog. 8 1/2 x 11 in. 80 pp. Illustrated. Showing installations of Kewanee boilers, water heaters, radiators, etc.
Catalog No. 78, 6 x 9 in. Illustrated. Describes Kewanee Firebox Boilers with specifications and setting plans.
Catalog No. 79, 6 x 9 in. Illustrated. Describes Kewanee power boilers and smokeless tubular boilers with specifications.
Mueller Co., Decatur, Ill.
Catalog G, 8 x 11 in., 316 pages. Profusely illustrated. Contains full data on plumbing, water and gas brass goods, including valves, faucets, traps, regulators, built-in bath equipment, and automatic systems of hot water control. Complete details are presented with a number of data sheets showing roughing-in measurements for built-in bath equipment.
Nash Engineering Company, South Norwalk, Conn.
No. 37. Devoted to Jennings Hytor Return Line Vacuum Heating Pumps, electrically driven, and supplied in standard sizes up to 300,000 square feet equivalent direct radiation.
No. 16. Dealing with Jennings Hytor Air Line Heating Pumps.
No. 17. Describing Jennings Hytor Condensation Pumps, sizes up to 70,000 square feet equivalent direct radiation.
No. 25. Illustrating Jennings Return Line Vacuum Heating Pumps. Size M, for equivalent direct radiation up to 5,000 square feet.
National Radiator Company, Johnstown, Pa.
Aero Radiators; Beauty and Worth. Catalog 34. Booklet 6 x 9 in., 20 pp., describing and illustrating radiators and accessories.
Peerless Unit Ventilation Company, Inc., Long Island City, N. Y.
Peerless Industrial Heating Unit. Folder 6 x 9 in. Deals specifically with heating industrial structures.
Peer Vent Heating and Ventilating Unit. Brochure, 6 x 6 1/2 in. Illustrated. Valuable data on apparatus for ventilating and heating buildings of different types.
Trane Co., The, La Crosse, Wis.
Bulletin 14. 16 pp. 8 1/2 x 10 1/2 in. Cover the complete line of Trane Heating Specialties, including Trane Bellows Traps, and Trane Bellows Packless Valves.
Bulletin 20. 24 pp. 8 1/2 x 10 1/2 in. Explains in detail the operation and construction of Trane Condensation, Vacuum, Booster, Circulating, and similar pumps.
Utica Heater Company, Utica, N. Y.
Imperial Round and Square Boilers and Supplies. Catalog. 3 1/2 x 6 1/2 in. Gives complete data on small heaters.
Special Folders. 8 1/2 x 11 in. "Warmth and Comfort," describing the scientifically correct NEW IDEA pipeless furnaces. "SUPERIOR Warm Air Pipe Furnaces," a standard line of heating equipment for over forty years. "SUPER-SMOKELESS Pipe and Pipeless Furnaces," a new and remarkably efficient warm air heater, burning cheap soft coal without smoke—utilizing the principle of the Bunsen Burner.

Standard Equipment on all these Boilers

Abendroth
Ames
Birchfield
B-Line
Burnham
Coil

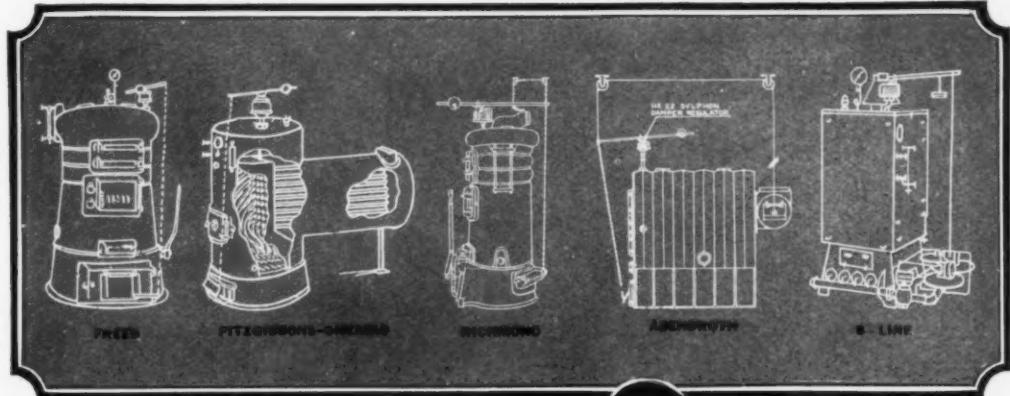
Coatesville
Congress
Fitzgibbons-
Ontario
Floral City
Freed
Galva

Heggie-Simplex
Imperial
International
Economy
Kewanee
Keystone

L-O
Lansdale
Molby
Novelty
National
Oil City

Otis-Sawyer-
Economy
Pierce-Pebecko
Putnam
Richardson
Richmond

Ross
Senate
Spencer
Standard
Star
Thatcher
West Coast



Sylphon TRADE MARK Steam Damper Regulators

Only the sensitive, flexible, all metal Sylphon Bellows used as the diaphragm of Sylphon Damper Regulators can deliver continuous and proportionate response to changes in steam pressure, without "snap action" or "lag."

When you specify any one of the 35 boilers listed above—you'll find Sylphon Regulators already attached as standard equipment. On all other boilers,

you'll find it decidedly to your advantage also to specify Sylphon Regulators, because you can assure your clients of uniform heating with low fuel consumption under completely automatic damper control for the life of the boiler. Be sure you get the genuine Sylphon Regulator. Refuse imitations. At the same time, you are assured that your clients will never have any servicing troubles with the genuine Sylphon Regulator.

Ask for Bulletin FDR-5

Every genuine Sylphon Bellows is drawn and formed seamless from a flat sheet of specially prepared metal, with folds or corrugations formed to provide the greatest strength and flexibility.



Breakdown, so common with the ordinary type of thermostat is eliminated, for neither years of constant use nor the powerful action of steam weaken the Sylphon Bellows.

THE FULTON COMPANY KNOXVILLE, TENN.

ORIGINATORS AND PATENTEES OF THE SYLPHON BELLOWS

SALES OFFICES IN: New York Chicago Detroit Boston Philadelphia
and all the Principal Cities in U. S.

European representatives: Crosby Valve & Engineering Co., Ltd.
41-42 Foley Street, London, W. 1, England

Canadian representatives: Darling Bros., Ltd.
120 Prince Street, Montreal, Canada

SELECTED LIST OF MANUFACTURERS PUBLICATIONS—Continued from page 138

HEATING EQUIPMENT—Continued

Utica Imperial SUPER-SMOKELESS Boiler. Catalog. 8½ x 11 in. Consists of the following seven bulletins, either loose or bound together: (1) School Heating Bulletin. (2) Public Building Bulletin. (3) Theater Heating Bulletin. (4) Churches and Religious Institutions. (5) Residences, Apartments and Hotels. (6) Offices, Industrial Buildings and Garages. (7) Technical Bulletin describing patented Bunsen Burner design and construction of the SUPER-SMOKELESS BOILER, which burns the cheapest grade of soft coal smokelessly and operates equally well with hard coal, coke or fuel oil.

HOSPITAL EQUIPMENT

The Frink Co., Inc., 24th St. and Tenth Ave., New York City. Catalog 426. 7 x 10 in., 16 pp. A booklet illustrated with photographs and drawings, showing the types of light for use in hospitals, as operating table reflectors, linolite and multilite concentrators, ward reflectors, bed lights and microscopic reflectors, giving sizes and dimensions, explaining their particular fitness for special uses.

The International Nickel Company, 67 Wall St., New York, N. Y. Hospital Applications of Monel Metal. Booklet. 8½ x 11½ in., 16 pp. Illustrated. Gives types of equipment in which Monel Metal is used, reasons for its adoption, with sources of such equipment.

The Kny-Scheerer Corporation of America, 119 Seventh Ave., New York.

Hospital Equipment, 16th Edition. 7½ x 10½ in., 232 pp. Illustrated. Complete description of Hospital and Surgical Furniture, Hospital Appliances including Operating Tables, Cabinets, Sterilizers for Water, Dressing and Instruments, also Hydro-therapeutic Apparatus.

Surgical Sundries. Second Edition. Booklet. 7½ x 10½ in., 48 pp. Illustrated. A complete line of glassware, enamelware, rubber goods, restraint apparatus, instrument sterilizers, sputum cups, wheel chairs and sick room comforts.

Electro Medical. 25th Edition. Booklet. 7½ x 10½ in., 160 pp. Illustrated. A complete line of Albee Bone Sets, Apparatus for AC and DC Cystoscopes, Heat Magnets, Vibrators, Compressors, Electric Light Baths, High Frequency Apparatus and X-Ray Apparatus and Accessories.

INCINERATORS

Goder Incinerator Corporation, 323 North Michigan Ave., Chicago, Illinois.

"Goder Incinerators" Booklet. 8½ x 11 in., 16 pp. Illustrated. Describes the Goder Principle of Waste Disposal, illustrates the various designs and models, shows photos of actual installations.

"Goder Chimney Fed Incinerators." Booklet 8 pp. 8½ x 11 in. Illustrated. Describes chimney fed types of incinerator. Shows various designs and photos of installations. Gives specifications, also showing construction plans and details.

"The Garbage Hog." Folder 8½ x 11 in., 4 pp. Describes their portable Incinerator, with diagrams.

Kerner Incinerator Company, 715 E. Water St., Milwaukee, Wis. Incinerators (Chimney-fed) Catalog No. 15 (Architect and Builders' Edition). Size 8½ x 11 in., 16 pp. Illustrated. Describes principle and design of Kernerator Chimney-fed Incinerators for residences, apartments, hospitals, schools, apartment hotels, clubs and other buildings. Shows all standard models and gives general information and working data.

Sanitary Elimination of Household Waste, booklet, 4 x 9 in., 16 pp., Illustrated. Gives complete information on the Kernerator for residences.

Garbage and Waste Disposal for Apartment Buildings, folder, 8½ x 11 in., 8 pp. Illustrated. Describes principle and design of Kernerator-Chimney-fed Incinerator for apartments and gives list of buildings where it has been installed.

Sanitary Disposal of Waste in Hospitals, booklet. 4 x 9 in., 12 pp. Illustrated. Shows how this necessary part of hospital service is taken care of with the Kernerator. Gives list of hospitals where installed.

INSULATING LUMBER

Mason Fibre Co., 111 West Washington St., Chicago, Ill. Booklet, 12 pp., 8½ x 11 in. Illustrated. Gives complete specifications for use of insulating lumber and details of construction involving its use.

INSULATION

Armstrong Cork & Insulation Co., Pittsburgh, Pa. Corkboard Insulation. Brochure. 6½ x 9½ in. Illustrated. Fully discusses properties of corkboard and its uses in insulation of cold storage rooms, refrigerators, residences, apartment houses.

The Insulation of Roofs with Armstrong's Corkboard. Booklet. Illustrated. 7½ x 10½ in., 32 pp. Discusses means of insulating roofs of manufacturing or commercial structures.

Insulation of Roofs to Prevent Condensation. Illustrated booklet. 7½ x 10½ in., 36 pp. Gives full data on valuable line of roof insulation.

Filing Folder for Pipe Covering Data. Made in accordance with A. I. A. rules.

"The Cork Lined House Makes a Comfortable Home." 5 x 7 in., 32 pp. Illustrated.

Cabot, Inc., Samuel, Boston, Mass. Cabot's Insulating Quilt. Booklet, 7½ x 10½ ins., 24 pp., Illustrated. Deals with a valuable type of insulation.

Johns-Manville, Inc., New York.

Johns-Manville Service to Industry. Bound Volume. 260 pp. 8 x 11 in. Deals with Asbestos Roofings, Heat and Electrical Insulations. Waterproofing, and Industrial Flooring.

A Representation Installation of the Johns-Manville Underground System of Insulation. Booklet. 20 pp., 8½ x 11 in.

Philip Carey Co., The, Cincinnati, Ohio. Carey Asbestos and Magnesia Products. Catalog. 6 x 9 in. 72 pp. Illustrated.

Celotex Company, The, 645 N. Michigan Ave., Chicago, Ill. The Hidden Comfort of Celotex Homes. Booklet 8½ x 11 in. Celotex Specifications. Booklet 8½ x 11 in.

INSULATION—Continued

Johns-Manville, Inc., Madison Ave. and 41st St., New York, N. Y. Johns-Manville Service to Power Users. Catalog. 8½ x 11 in., 150 pp. Illustrated. Contains valuable data on all forms of insulation, packages, steam traps, high temperature cements, brake locks and linings, also general technical data.

United States Mineral Wool Co., 280 Madison Ave., New York. The Uses of Mineral Wool in Architecture. Booklet 4½ x 6½ in., 24 pp. Illustrated. Describes properties of mineral wool as insulation against heat, frost, sound. Specifications and section drawing for use as a fireproofing. Rules for estimate and cost.

JOISTS

Truscon Steel Co., Youngstown, Ohio. Truscon Steel Joists. Booklet, 8½ x 11 in., 16 pp. Illustrated with typical buildings and showing details of construction. Tables of sizes and safe loads.

Truscon Steel Joist Buildings. Illustrated 32-page brochure, attractively illustrated, showing types of buildings equipped with Truscon Steel Joist.

Strip Steel Joist Construction. 14-page booklet, with illustrations. Reprint of paper presented to Building Officials' Conference, Madison, Wis., 1925, by J. J. Calvin, Secretary, Strip Steel Joist Association.

KITCHEN EQUIPMENT

The International Nickel Company, 67 Wall St., New York, N. Y. Hotels, Restaurants and Cafeteria Applications of Monel Metal. Booklet. 8½ x 11 in., 32 pp. Illustrated. Gives types of equipment in which Monel Metal is used, with service data and sources of equipment.

Mueller Co., Decatur, Ill. Catalog G, 8 x 11 in., 316 pages. Profusely illustrated. Contains full data on plumbing, water and gas brass goods, including valves, faucets, traps, regulators, built-in bath equipment, and automatic systems of hot water control. Complete details are presented with a number of data sheets showing roughing-in measurements for built-in bath equipment.

Pick & Company, Albert, 208 W. Randolph St., Chicago, Ill. School Cafeteria. Portfolio. 17 x 11 in., 44 pp. Illustrated. An exhaustive study of the problems of school feeding, with copious illustrations and blue prints. Very valuable to the architect. School Cafeterias. Booklet. 9 x 6 in. Illustrated. The design and equipment of school cafeterias with photographs of installation and plans for standardized outfits.

Kitchen Equipment. Booklet. 9 x 6 in. Illustrated. Photographs and descriptions of Hotel, Club and Hospital kitchens with treatise on plans and equipment of efficient kitchens.

Electric Kitchen Equipment. Booklet. 8½ x 11½ in. Illustrated. Photographs and descriptions of PIX "Master-Made" ranges, ovens, etc., for Hotels and Restaurants.

Hotel, Apartment Building, Club and Institution Installations. Portfolio. 17 x 11 in., 100 pp. Shows, mostly by plates, how the Albert Pick Company equips hotels completely from top to bottom.

Equipment for Cafeterias, Lunch Rooms, Restaurants, and Dining Rooms. Portfolio. 17 x 11 in., 86 pp. Illustrated. The last word in Cafeteria equipment to meet all requirements.

LABORATORY EQUIPMENT

Alberene Stone Co., 153 West 23rd Street, New York City. Booklet 8½ x 11½ in., 26 pp. Stone for laboratory equipment, shower partitions, stair treads, etc.

Duriron Company, Dayton, Ohio. Duriron Acid, Alkali and Rust-proof Drain Pipe and Fittings. Booklet, 8½ x 11 ins., 20 pp. Full details regarding a valuable form of piping.

Kewaunee Manufacturing Company, 141 Lincoln St., Kewaunee, Wis.

Kewaunee Book of Laboratory Furniture. Catalog. 7 x 10 in., 408 pp. Illustrated. Science and Vocational Laboratory Furniture for schools, colleges, technical institutes, hospitals, etc., including floor plans, illustrations of buildings and equipped laboratories, illustrations of equipment engineering data for mechanical ventilation and illustrations of special plumbing fixtures for laboratory use. A supplement is also issued for this work.

LANTERNS

Todhunter, Arthur, 414 Madison Ave., New York. Hand Wrought Lanterns. Booklet. 5½ x 6½ in., 20 pp. Illustrated in Black and White. With price list. Lanterns appropriate for exterior and interior use, designed from old models and meeting the requirements of modern lighting.

LATH, METAL AND REINFORCING

The General Fireproofing Company, Youngstown, Ohio. Herringbone Metal Lath Handbook. 5½ x 11 in., 32 pp. Illustrated. Standard specifications for Cement Stucco on Herringbone.

Rigid Metal Lath and interior plastering.

Milwaukee Corrugating Co., Milwaukee, Wis. The Milcor Manual. Booklet 8½ x 11 in., 64 pp. Illustrated. Covers Milcor methods and materials, metal lath, corner beads, steel domes, channels, etc.

National Steel Fabric Co., Pittsburgh, Pa.

National Steel Fabric. Folder, 8½ x 11 in. Illustrated. Complete information in condensed form on uses of various styles of National Steel Fabric Reinforcement. Illustrates and explains uses. Includes ready reference Table of Uses and Types of Steel Fabric Reinforcement.

Northwestern Expanded Metal Co., 1234 Old Colony Building, Chicago, Ill.

Northwestern Expanded Metal Products. Booklet. 8½ x 10½ in., 16 pp. Fully illustrated, and describes different products of this company, such as Kno-burn metal lath, 20th Century Corrugated. Plaster-Sava and Longspan lath channels, etc.



Hiram Sibley Building, Rochester, N. Y. Messrs. Coolidge, Bulfinch, Shepley and Abbott, architects, Boston. Roof insulated with Armstrong's Corkboard to protect top floor from summer's heat and winter's cold.

Cork Insulation on the Roof of the Hiram Sibley Building

ARMSTRONG'S Corkboard was used to insulate the roof of the Hiram Sibley Building, Rochester, one of the handsomest business structures in central New York, for the two-fold purpose of economy and comfort.

In winter the top floor will be easily and comfortably heated, and at a substantial saving in fuel, for the insulation will prevent the tremendous waste of heat that is lost through uninsulated roofs.

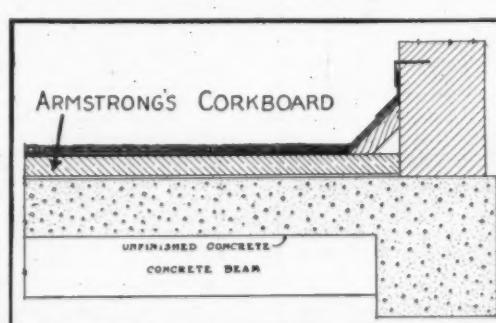
In summer, the top floor will be protected from the direct heat of the sun and the offices under the roof will be as cool and comfortable as those on the floors below.

In any kind of building—office or manufacturing, public or residential—insulating the roof with Armstrong's Corkboard is the most effective means of overcoming those temperature conditions which are usually so troublesome and expensive on top floors and in single-story buildings.

Armstrong's Corkboard is easily applied on any type of roof, new or old. It is furnished in boards of such thickness that adequate insulation can be obtained in a *single layer*—an important advantage from the standpoint of labor cost. Armstrong's Corkboard is fire retardant. It is also non-absorbent of moisture and does not buckle or swell, but makes a firm, substantial base for the roofing.

Send for complete detailed information on the use of Armstrong's Corkboard for the insulation of walls and roofs of any type of building. There is no charge.

Armstrong Cork & Insulation Company (*Division of Armstrong Cork Company*), 205 Twenty-fourth St., Pittsburgh, Pa. McGill Building, Montreal, Que. Armstrong Cork Company, Ltd., Sardinia House, Kingsway, London, W. C. 2, England. Branches in the Principal Cities of the United States.



Typical method of insulating a concrete-slab roof-deck.

Armstrong's Corkboard Insulation

for the Roofs of All Kinds of Buildings

SELECTED LIST OF MANUFACTURERS PUBLICATIONS—Continued from page 140

LATH, METAL AND REINFORCING—Continued

Wickwire Spencer Steel Co., Inc., 41 East 42nd St., New York. Clinton Wire Lath. Brochure. 9 x 11 in. 51 pp. A valuable booklet on metal lathing and the proper method of using it.

Truscon Steel Company, Youngstown, Ohio. Truscon 1-A Metal Lath. 12-page booklet, 8½ x 11 in., beautifully printed, with illustrations of details of lath and method of application.

Truscon 3/4-inch Hy-Rib for Roofs, Floors and Walls. Booklet, 8½ x 11 in., illustrating Truscon 3/4-in. Hy-Rib as used in industrial buildings, plates of typical construction. Progressive steps of construction. Specification and load tables.

LAUNDRY CHUTES

The Pfaudler Company, 217 Cutler Building, Rochester, N. Y. Pfaudler Glass-Lined Steel Laundry Chutes. Booklet. 5½ x 7½ in. 16 pp. Illustrated. A beautifully printed brochure describing in detail with architects' specifications THE PFAUDLER GLASS LINED STEEL LAUNDRY CHUTES. Contains views of installations and list of representative examples.

LAUNDRY MACHINERY

American Laundry Machinery Co., Norwood Station, Cincinnati, Ohio. Functions of the Hotel and Hospital Laundry. Brochure, 8 pp., 8½ x 11 ins. Valuable data regarding an important subject.

LIGHTING EQUIPMENT

Artistic Lighting Equipment Assn., Guarantee Title Bldg., Cleveland. 1927 Handbook of the A. L. E. A. Illustrated booklet, 64 pp., 5 x 7½ in. Outlines purposes and methods of the Association. Business Bulletin of the A. L. E. A. Illustrated brochure, 24 pp., 8½ x 11 in. Data of interest on lighting equipment.

Curtis Lighting, Inc., Chicago, Ill. Catalog 393. 8 x 10 in. 34 pp. Illustrated. Describes and illustrates X-Ray reflectors for show cases and windows, and lighting fixtures for interior illumination of stores.

Lighting Specifications.—A. I. A. File 31 F. Looseleaf, 8½ x 11 in. Architectural detail plates on church, restaurant and home lighting. Complete details, illustrations and helpful ideas on direct and indirect illumination. Sent free to any registered architect who requests them on his own letterhead.

Frink, Inc., I. P., 24th St. and 10th Ave., New York City. Catalog 415. 8½ x 11 in. 46 pp. Photographs and scaled cross-sections. Specialized bank lighting, screen and partition reflectors, double and single desk reflectors and Polaralite Signs.

Guth Company, The Edwin F., 2615 Washington Ave., St. Louis, Mo.

Guth Lighting Equipment (Catalog No. 15). Booklet, 8½ x 11 ins. Fully illustrated, and covering lighting fixtures for buildings of all kinds.

Forge Craft (Catalog No. 16). Booklet, 16 pp., 8½ x 10½ ins. Brochure dealing specifically with fixtures intended for use in buildings of the so-called "bungalow" type.

Aglite Porcelain Enameled Illuminators. Folder, 4 pp., 8½ x 11 in. on a new and improved type of lighting.

Holophane Glass Company, Inc., 342 Madison Ave., New York City. Holophane Helps to Make Well Known Quality Products. Brochure. 20 pp., 8½ x 11 in. Deals with lighting industrial buildings, giving illustrations of well lighted interiors.

Modern Retailing Success. Booklet, 16 pp., 8½ x 11 in. Lighting of shops and show windows. Illustrations give many interesting suggestions.

Holophane Catalog: Commercial edition. Brochure, 40 pp., 8½ x 11 in. General catalog of details of lighting equipment.

Modern School Lighting. Booklet 35 pp., 6 x 9 in. Excellent work on lighting school rooms, gymnasiums, etc.

Pittsburgh Reflector Co., Pittsburgh, Pa. Cove Lighting. Booklet. 8½ x 11 in. 24 pp. Gives complete data on lighting of this type.

Show Window Lighting. Booklet. 8½ x 11 in. 28 pp. A most useful work on lighting these important areas.

MAIL CHUTES

Cutler Mail Chute Company, Rochester, N. Y. Cutler Mail Chute Model F. Booklet. 4 x 9½ in. 8 pp. Illustrated.

MANTELS

Arthur Todhunter, 414 Madison Avenue, New York, N. Y. Georgian Mantels. New Booklet. 24 pp., 5½ x 6½ in. A fully illustrated brochure on eighteenth century mantels. Folders give prices of mantels and illustrations and prices of fireplace equipment.

MARBLE

The Georgia Marble Company, Tate, Ga. New York Office, 1328 Broadway.

Why Georgia Marble is Better. Booklet. 3½ x 6 in. Gives analysis, physical qualities, comparison of absorption with granite, opinions of authorities, etc.

Convincing Proof. 3½ x 6 in. 8 pp. Classified list of buildings and memorials in which Georgia Marble has been used, with names of Architects and Sculptors.

METALS

American Sheet & Tin Plate Co., Frick Building, Pittsburgh, Pa. Reference Book. Pocket Ed. 2½ x 4½ in. 168 pp. Illustrated. Covers the complete line of Sheet and Tin Mill Products.

Apollo and Apollo-Keystone Galvanized Sheets. Catalog. 8½ x 11 in. 20 pp. Illustrated.

Research on the Corrosion Resistance of Copper Steel. Booklet. 8½ x 11 in. 24 pp. Illustrated. Technical information on results of atmospheric corrosion tests of various sheets under actual weather conditions.

The International Nickel Company, 67 Wall St., New York, N. Y. The Choice of a Metal. Booklet. 6½ x 3 in. 166 pp. Illustrated. Monel Metal—its qualities, use and commercial forms, briefly described.

MILL WORK—See also Wood

Curtis Companies Service Bureau, Clinton, Iowa. Architectural Interior and Exterior Woodwork. Standardized Book. 9 x 11½ in. 240 pp. Illustrated. This is an Architects' Edition of the complete catalog of Curtis Woodwork, as designed by Trowbridge & Ackerman. Contains many color plates.

Better Built Homes. Vols. XV-XVIII incl. Booklet. 9 x 12 in. 40 pp. Illustrated. Designs for houses of five to eight rooms, respectively, in several authentic types, by Trowbridge & Ackerman, architects for the Curtis Companies.

Curtis Details. Booklet. 19½ x 23½ in. 20 pp. Illustrated. Complete details of all items of Curtis woodwork, for the use of architects.

Hartmann-Sanders Company, 2155 Elston Ave., Chicago, Ill. Column Catalog. 7½ x 10 in. 48 pp. Illustrated. Contains prices on columns 6 to 36 in. diameter, various designs and illustrations of columns and installations.

The Pergola Catalog. 7½ x 10 in. 64 pp. Illustrated. Contains illustrations of pergolas, lattices, garden furniture in wood and cement, garden accessories.

Roddis Lumber and Veneer Co., Marshfield, Wis. Roddis Doors. Brochure, 24 pp., 5½ x 8½ in. Illustrated price list of doors for various types of buildings.

Roddis Doors, Catalog G. Booklet, 183 pp., 8½ x 11 in. Completely covers the subject of doors for interior use.

Roddis Doors for Hospitals. Brochure, 15 pp., 8½ x 11 in. Illustrated work on hospital doors.

Roddis Doors for Hotels. Brochure, 15 pp., 8½ x 11 in. Illustrated work on doors for hotel and apartment buildings.

MORTAR COLORS

Clinton Mortar Paint Co., Clinton, N. Y. Clinton Mortar Colors. Folder. 8½ x 11 in. 4 pp. Illustrated in color, gives full information concerning Clinton Mortar Colors with specific instructions for using them.

Color Card. 6½ x 3½ in. Illustrates in color the ten shades in which Clinton Mortar Colors are manufactured.

Something new in Stucco. Folder. 3½ x 6 ins. An interesting folder on the use of coloring matter for stucco-coated walls.

PAINTS, STAINS, VARNISHES AND WOOD FINISHES

Cabot, Inc., Samuel, Boston, Mass. Cabot's Creosote Stains. Booklet. 4 x 8½ in. 16 pp. Illustrated.

The Glidden Company, Cleveland, Ohio. More Daylight. 8 x 10½ in. 20 pp. Portraying by illustrations and text the need and methods of modern mill painting.

Glidden Specification Book. 8 x 10½ in. 12 pp. Complete architectural specifications for Glidden Paints and Varnishes, including Ripolin. Directions for the proper finishing of wood, metal plaster, concrete, brick and other surfaces.

Martin Varnish Co., 2500 Quarry St., Chicago, Ill. Architectural Specifications. Booklet. 8½ x 11 in. 20 pp. Illustrated. Complete guide for Architects in specifying Martin Varnish Products.

Your Floors. Booklet. 5 x 7 in. 20 pp. Illustrated. Explains fully how to finish all kinds of floors and woodwork with Martin's Pure Varnish.

A. C. Horn Company, Long Island City, N. Y. Keramic Catalog. Booklet 26 pp., 8½ x 11 in. A magnificent brochure illustrated in color, describing a valuable line of specialties for use with concrete floors—colorings, hardeners, waterproofing, etc.

National Lead Company, 111 Broadway, New York, N. Y. Handy Book on Painting. Book. 5½ x 3½ in. 100 pp. Gives directions and formulas for painting various surfaces of wood, plaster, metals, etc., both interior and exterior.

Red Lead in Paste Form. Booklet. 6½ x 3½ in. 16 pp. Illustrated. Directions and formulæ for painting metals.

Came Lead. Booklet. 8½ x 6 in. 12 pp. Illustrated. Describes various styles of lead came.

Cinch Anchoring Specialties. Booklet. 6 x 3½ in. 20 pp. Illustrated. Describes complete line of expansion bolts.

Pratt & Lambert, Inc., Buffalo, N. Y. Specification Manual for Paint, Varnishing and Enameling. Booklet, 38 pp., 7½ x 10½ ins. Complete specifications for painting, varnishing and enameling interior and exterior wood, plaster, and metal work.

The Ripolin Company, Cleveland, Ohio. Ripolin Specifications. Book. 8 x 10½ in. 12 pp. Complete specifications and general instructions for the application of Ripolin, the original Holland enamel paint. Also directions for proper finishing of wood, metal, plaster, concrete, brick and other surfaces.

Why Ripolin Has an International Reputation. 8 x 10½ in. 24 pp. Designed for the architect's files to illustrate the many varied uses of Ripolin Enamel Paint in all parts of the world. Profusely illustrated.

Rubberoid Co., The (formerly the Standard Paint Co.), 95 Madison Avenue, New York, N. Y. Preservative Coating. Booklet. 6 x 9 in. 15 pp. Illustrated. Presents in a concise manner the properties and uses of the Rubberoid Company's various paint preparations.

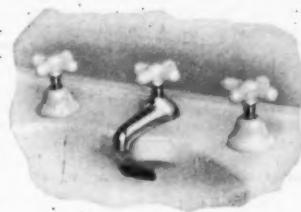
Sherwin-Williams Company, 601 Canal Rd., Cleveland, Ohio. Painting Concrete and Stucco Surfaces. Bulletin No. 1. 8½ x 11 in. 8 pp. Illustrated. A complete treatise with complete specifications on the subject of Painting of Concrete and Stucco Surfaces. Color chips of paint shown in bulletin.

Enamel Finish for Interior and Exterior Surfaces. Bulletin No. 2. 8½ x 11 in. 12 pp. Illustrated. Thorough discussion, including complete specifications for securing the most satisfactory enamel finish on interior and exterior walls and trim.

Painting and Decorating of Interior Walls. Bulletin No. 3. 8½ x 11 in. 20 pp. Illustrated. An excellent reference book on Flat Wall Finish, including texture effects, which are taking the country by storm. Every architect should have one on file.

**"TRIUMPH"
BRASS TRIMMINGS**

Standardized—tested the equal of fifteen years of service—of typical Clow quality—at popular prices



Clow "Triumph" Compression Stops for lavatory—with four-arm china indexed handles—fitted into combination supply and waste fixture.



Clow "Triumph" Compression Lavatory Faucets with four-arm solid china indexed handles.



Clow "Triumph" Compression Faucet with swinging spout, china-tipped index handles and china soap dish.

Some of the fittings that complete the "Triumph" Line are shown above. Have the Clow Man in your territory show them to you.

PREFERRED FOR EXACTING PLUMBING SINCE 1878



Winning 200,000 Battles with Water and Wear

An unseen battle is fought every time you turn on a faucet—a battle with water and wear.

In too many of these battles faucets have been defeated. Valves and seats wear away, and water pushes through. The result is a constant dripping in sinks, lavatories, and bath tubs.

But water and wear have had their day. Clow "Triumph" Brass Trimmings have won 200,000 faucet opening battles.

Under city water pressure, ten Clow "Triumph" faucets were opened and closed more than 200,000 times. This is the equal of fifteen years of service.

After the test, wear on the working parts

was measured. It was so slight that the faucets looked good enough for another "15 years" test. And not one of them showed any sign of dripping or leaking.

This test assures plumbers and architects that when they install Clow "Triumph" Brass Trimmings there will be no leaking or dripping, even after years of service.

Clow "Triumph" Brass Trimmings are standardized—parts are readily interchangeable. If replacements are desired, they can be made easily, quickly and cheaply.

And the Clow "Triumph" Line of Brass Compression Trimmings sells at popular prices.

JAMES B. CLOW & SONS, 201 to 299 N. Talman Avenue, CHICAGO
Offices in Principal Cities

CLOW

TRIUMPH [The working units of "Triumph" fittings are readily interchangeable] BRASS

SELECTED LIST OF MANUFACTURERS

PUBLICATIONS—Continued from page 142

PAINTS, STAINS, VARNISHES AND WOOD FINISHES—Continued

Protective Paints for Metal Surfaces. Bulletin No. 4. $8\frac{1}{2} \times 11$ in. 12 pp. Illustrated. A highly technical subject treated in a simple, understandable manner.

Sonneborn Sons, Inc., L., Dept. 4, 116 Fifth Avenue, New York. Paint Specifications. Booklet. $8\frac{1}{2} \times 10\frac{1}{2}$ in. 4 pp.

Valentine & Co., 456 Fourth Avenue, New York. How to Use Valspar. Illustrated booklet, 32 pp., $3\frac{1}{4} \times 8$ in. Deals with domestic uses for Valspar.

How to Keep Your House Young. Illustrated brochure, 23 pp., $7 \times 8\frac{1}{2}$ in. A useful work on the upkeep of residences.

Zapon Co., The, 247 Park Ave., New York City. Zapon Architectural Specifications. Booklet, 28 pp., $8\frac{1}{2} \times 11$ in. Describes odorless brushing and spraying lacquers and lacquer enamels.

PANELING—See Millwork

PARTITIONS

Circle A Products Corporation, New Castle, Ind. Circle A Partitions Sectional and Movable. Brochure. Illustrated. $8\frac{1}{2} \times 11\frac{1}{4}$ in. 32 pp. Full data regarding an important line of partitions, along with Erection Instructions for partitions of three different types.

Hauserman Company, E. F., Cleveland, Ohio. Hollow Steel Standard Partitions. Various folders, $8\frac{1}{2} \times 11$ in. Illustrated. Give full data on different types of steel partitions, together with details, elevations and specifications.

Improved Office Partition Company, 25 Grand St., Elmhurst, L. I. Telesco Partition. Catalog. $8\frac{1}{2} \times 11$ in. 14 pp. Illustrated. Shows typical offices laid out with Telesco partitions, cuts of finished partition units in various woods. Gives specifications and cuts of buildings using Telesco.

Detailed Instructions for erecting Telesco Partitions. Booklet. 24 pp., $8\frac{1}{2} \times 11$ in. Illustrated. Complete instructions, with cuts and drawings, showing how easily Telesco Partition can be erected.

Richards-Wilcox Mfg. Co., Aurora, Ill. Partitions. Booklet. 7×10 in. 32 pp. Illustrated. Describes complete line of track and hangers for all styles of sliding, parallel, accordion and flush door partitions.

Sanymetal Products Co., Cleveland, Ohio. Sanymetal Partitions for Toilet Rooms. Booklet. $7\frac{1}{2} \times 11$ in. 24 pp. Illustrated. Complete data on a valuable line of toilet room partitions.

Sanymetal Products. Brochure. $8\frac{1}{2} \times 11$ in. 40 pp. Illustrated. Describes metal partitions, wainscots, roller hinges and toilet room hardware.

U. S. Gypsum Co., Chicago. Pyrobar Partition and Furring Tile. Booklet. $8\frac{1}{2} \times 11$ in. 24 pp. Illustrated. Describes use and advantages of hollow tile for inner partitions.

PIPE

American Brass Company, Waterbury, Conn. Bulletin B-1. Brass Pipe for Water Service. $8\frac{1}{2} \times 11$ in. 28 pp. Illustrated. Gives schedule of weights and sizes (I.P.S.) of seamless brass and copper pipe, shows typical installations of brass pipe, and gives general discussion of the corrosive effect of water on iron, steel and brass pipe.

Clow & Sons, James B., 534 S. Franklin St., Chicago, Ill. Catalog "A". $4 \times 6\frac{1}{2}$ in. 700 pp. Illustrated. Shows a full line of steam, gas and water works supplies.

Duriron Company, Inc., Dayton, Ohio. Duriron Acid, Alkali, Rust-proof Drain Pipe and Fittings. Booklet, 20 pp., $8\frac{1}{2} \times 11$ in., illustrated. Important data on a valuable line of pipe.

National Tube Co., Frick Building, Pittsburgh, Pa. "National" Bulletin No. 2. Corrosion of Hot Water Pipe, ($8\frac{1}{2} \times 11$ in. 24 pp.) Illustrated. In this bulletin is summed up the most important research dealing with hot water systems. The text matter consists of seven investigations by authorities on this subject.

"National" Bulletin No. 3. The Protection of Pipe Against Internal Corrosion ($8\frac{1}{2} \times 11$ in. 20 pp.) Illustrated. Discusses various causes of corrosion, and details are given of the deactivating and deaerating systems for eliminating or retarding corrosion in hot water supply lines.

"National" Bulletin No. 25. "National" Pipe in Large Buildings. $8\frac{1}{2} \times 11$ in. 88 pp. This bulletin contains 254 illustrations of prominent buildings of all types, containing "National" Pipe and considerable engineering data of value to architects, engineers, etc.

Modern Welded Pipe. Book of 88 pp. ($8\frac{1}{2} \times 11$ in.), profusely illustrated with halftone and line engravings of the important operations in the manufacture of pipe.

PLUMBING EQUIPMENT

Clow & Sons, James B., 534 S. Franklin Street, Chicago, Ill. Catalog "M." $9\frac{1}{2} \times 12$ in. 184 pp. Illustrated. Shows complete line of plumbing fixtures for Schools, Railroads and Industrial Plants.

Crane Company, 836 S. Michigan Avenue, Chicago, Ill. Plumbing Suggestions for Home Builders. Catalog. 3×6 in. 80 pp. Illustrated.

Plumbing Suggestions for Industrial Plants. Catalog. $4 \times 6\frac{1}{2}$ in. 43 pp. Illustrated.

Planning the Small Bathroom. Booklet. 5×8 in. Discusses planning bathrooms of small dimensions.

Duriron Company, Dayton, Ohio. Duriron Acid, Alkali and Rust-proof Drain Pipe and Fittings. Booklet, $8\frac{1}{2} \times 11$ in., 20 pp. Full details regarding a valuable form of piping.

Eliel Company, Fort City, Pa. Complete Catalog. $3\frac{1}{2} \times 6\frac{1}{2}$ in. 104 pp. Illustrated. Describes fully the complete Eliel line of standardized vitreous china plumbing fixtures, with diagrams, weights and measurements. Standardized Sixteen Circular. $3\frac{1}{2} \times 6\frac{1}{2}$ in. 18 pp. Illustrated.

PLUMBING EQUIPMENT—Continued

Kohler Co., Kohler, Wis. Catalog F. $7\frac{1}{2} \times 10\frac{1}{2}$ in. 216 pp. Illustrates and describes the complete line of Kohler trade-marked plumbing ware.

Roughing-In Measurement Binder. 5×8 in., containing loose leaf sheets on all staple fixtures.

Maddock's Sons Company, Thomas, Trenton, N. J. Catalog K. $10\frac{1}{2} \times 7\frac{1}{2}$ in. 242 pp. Illustrated. Complete data on vitreous china plumbing fixtures with brief history of Sanitary Pottery.

Mueller Co., Decatur, Ill. Catalog G. 8×11 in. 316 pages. Profusely illustrated. Contains full data on plumbing, water and gas brass goods, including valves, faucets, traps, regulators, built-in bath equipment, and automatic systems of hot water control. Complete details are presented with a number of data sheets showing roughing-in measurements for built-in bath equipment.

Speakman Company, Wilmington, Del. Speakman Showers and Fixtures. Catalog. $4\frac{1}{2} \times 7\frac{1}{2}$ in. 250 pp. Illustrated. Catalog of Modern Showers and Brass Plumbing Fixtures, with drawings showing layouts, measurements, etc. Toned Up in Ten Minutes. Booklet. $7\frac{1}{2} \times 10\frac{1}{2}$ in. 16 pp. Illustrated. Modern Showers and Washups for Industrial Plants, showing the sanitary method of washing in running water.

PUMPS

Chicago Pump Company, 2300 Wolfram Street, Chicago, Ill. The Correct Pump to Use. Portfolio containing handy data. Individual bulletins, $8\frac{1}{2} \times 11$ in., on bilge, sewage, condensation, circulating, house, boiler feed and fire pumps.

Kewanee Private Utilities Co., 442 Franklin St., Kewanee, Ill. Bulletin E. $7\frac{1}{2} \times 10\frac{1}{2}$ in. 32 pp. Illustrated. Catalog. Complete descriptions, with all necessary data, on Standard Service Pumps, Indian Brand Pneumatic Tanks, and Complete Water Systems, as installed by Kewanee Private Utilities Co.

RAMPS

Ramp Buildings Corporation, 21 East 40th Street, New York. Building Garages for Profitable Operation. Booklet. $8\frac{1}{2} \times 11$ in. 16 pp. Illustrated. Discusses the need for modern mid-city parking garages, and describes the d'Humy Motoramp system of design, on the basis of its superior space economy and features of operating convenience. Gives cost analyses of garages of different sizes, and calculates probable earnings.

Garage Design Data. Series of informal bulletins issued in looseleaf form, with monthly supplements.

The Trane Co., LaCrosse, Wis. Trane Small Centrifugal Pumps. Booklet. $3\frac{1}{2} \times 8$ in. 16 pp. Complete data on an important type of pump.

The Hockenbury System Incorporated, Harrisburg, Pa., for years specializing in the financing of modern community hotels, of which they have financed a hundred such throughout the United States, has expanded its service to include the financing of MOTORAMP garage buildings. They now have available for distribution an $8\frac{1}{2} \times 11$ booklet entitled: "The Hitching Post Problem Is Here Again," in which they explain their solution of the street motor parking problem, which will be sent free to inquiring architects.

REINFORCED CONCRETE—See also Construction, Concrete

The General Fireproofing Company, Youngstown, Ohio. Self-Sentering Handbook. $8\frac{1}{2} \times 11$ in. 36 pp. Illustrated. Methods and specifications on reinforced concrete floors, roofs and floors with a combined form and reinforced material.

Truscon Steel Company, Youngstown, Ohio. Shearing Stresses in Reinforced Concrete Beams. Booklet. $8\frac{1}{2} \times 11$ in. 12 pp.

North Western Expanded Metal Company, Chicago, Ill. Designing Data. Book. 6×9 in. 96 pp. Illustrated. Covers the use of Econo Expanded Metal for various types of reinforced concrete construction.

ROOFING

American Sheet & Tin Plate Co., Frick Bldg., Pittsburgh, Pa. Better Buildings. Catalog. $8\frac{1}{2} \times 11$ in. 32 pp. Describes Corrugated and Formed Sheet Steel Roofing and Siding Products, black, painted and galvanized, with directions for application of various patterns of Sheet Steel Roofing in various types of construction.

Copper—Its Effect Upon Steel for Roofing Tin. Catalog. $8\frac{1}{2} \times 11$ in. 28 pp. Illustrated. Describes the merits of high-grade roofing tin plates and the advantages of the copper-steel alloy.

The Testimony of a Decade. Booklet. $8\frac{1}{2} \times 11$ in. 16 pp., with Graphic Chart and illustrations showing losses to various Iron and Steel Sheets for roofing, from atmosphere corrosion.

Barber Asphalt Co., Philadelphia, Pa. Specifications, Genasoc Standard Trinidad Lake Asphalt Built-up Roofing. Booklet. $8 \times 10\frac{1}{2}$ in. Gives specifications for use of several valuable roofing and waterproofing materials.

The Barrett Company, 40 Rector Street, New York City. Architects' and Engineers' Built-up Roofing Reference Series; Volume IV Roof Drainage System. Brochure. 63 pp. $8\frac{1}{2} \times 11\frac{1}{2}$ in. Gives complete data and specifications for many details of roofing.

Philip Carey Co., Lockland, Cincinnati, Ohio. Architects' Specifications for Carey Built-up Roofing. Booklet. $8 \times 10\frac{1}{2}$ in. 24 pp. Illustrated. Complete data to aid in specifying the different types of built-up roofing to suit the kind of roof construction to be covered.

Carey Built-up Roofing for Modern School Buildings. Booklet. $8 \times 10\frac{1}{2}$ in. 32 pp. Illustrated. A study of school buildings of a number of different kinds and the roofing materials adapted for each.

Federal Cement Tile Co., 608 So. Dearborn St., Chicago, Ill. The Indestructible Roof. Booklet. 10×13 in. 32 pp. Illustrated. Illustrates and describes the installation of permanent concrete interlocking tile, tile with glass insets, flat tile and channel tile, on all types of industrial plants and other buildings with flat and pitched surfaces.

A
PRACTICAL
SUGGESTION
FOR
COLD
WEATHER
MASONRY



TIME after time, Carney Cement Mortar has been used for winter construction—always with perfect results. The reason is very simple. Carney Cement Mortar can freeze solid in the wall, yet set up perfectly after thawing out.

In addition to this strong winter feature, Carney Cement offers other decidedly important advantages. Its simple mix of water, sand and Carney Cement overcomes the need of close supervision at the mortar box. The elimination of soaking and lime slaking aids in preventing mistakes and materially reduces labor costs as well. Besides, the masons rarely need to tamp or re-temper Carney Cement Mortar. As a result, masonry costs are considerably reduced.

If you have a winter project, use Carney Cement for the mortar. You will find an everlasting bond—relief from mixing worries—and a labor and material cost far below what is ordinarily expected.

THE CARNEY COMPANY

Cement Makers Since 1883

DISTRICT SALES OFFICES:
CLEVELAND, CHICAGO, DETROIT, ST. LOUIS, MINNEAPOLIS

Specifications:
1 part Carney Cement
to 4 parts sand.

All the brick, tile and terra cotta in
this building were laid up in Carney
Cement.

*Architects—GRAHAM, ANDERSON,
PROBST & WHITE,
Chicago, Illinois.

*Contractors—AETNA BRICKLAYING
& CONSTRUCTION CO.,
St. Louis, Mo.

CARNEY CEMENT
for Brick and Tile Mortar

SELECTED LIST OF MANUFACTURERS

PUBLICATIONS—Continued from page 144

ROOFING—Continued

Standards. Booklet. $8\frac{1}{2} \times 11$ in. 40 pp. Illustrated with full-page drawings. Gives full details of all forms of roof construction of steel structure, ridge and gutter construction, purlin arrangement, spacing, etc., for standard roofs.

The Ideal Retaining Wall. Leaflet. 4 pp. $8\frac{1}{2} \times 11$ in., illustrated. Valuable data on use of Federal Cribbing Units for constructing retaining walls.

The Roof for Permanence. Booklet, 12 pp., $8\frac{1}{2} \times 11$ in., illustrated. Deals with Federal Cement Tile for flat and pitched roofs for large buildings.

Johns-Manville, Inc., Madison Ave. & 41st St., New York, N. Y. Johns-Manville Building Materials. Book. $8\frac{1}{2} \times 11$ in. 100 pp. Illustrated. A comprehensive catalog of various types of roofing for all forms of construction. Details of wall, floor and ceiling insulation; asbestos wood for fireproof construction; waterproofing, etc.

Johns-Manville Asbestos Shingles. Booklet. $8\frac{1}{2} \times 11$ in. 24 pp. Illustrated. This booklet is profusely illustrated in colors, showing some very artistic blends of asbestos shingles with various types of architecture. Contains many valuable suggestions for the architect.

Ludowici-Celadon Company, 104 So. Michigan Ave., Chicago, Ill. "Ancient" Tapered Mission Tiles. Leaflet. $8\frac{1}{2} \times 11$ in. 4 pp. Illustrated. For architects who desire something out of the ordinary, this leaflet has been prepared. Describes briefly the "Ancient" Tapered Mission Tiles, hand-made, with full corners and designed to be applied with irregular exposures.

Milwaukee Corrugating Co., Milwaukee, Wis. The Milcor Architectural Sheet Metal Guide. Booklet. $8\frac{1}{2} \times 11$ in. 64 pp. Illustrated. Gives valuable technical sheet metal data.

Ruberoid Co., The (formerly the Standard Paint Co.), 95 Madison Avenue, New York, N. Y. Instructions for Laying Built-up Roofs. Booklet. $8\frac{1}{2} \times 11$ in. Illustrated.

Ruberoid Strip Shingle. Booklet. $3\frac{1}{2} \times 6\frac{1}{4}$ in. 16 pp. Illustrated in color.

U. S. Gypsum Co., Chicago. Pyrobar Roof Construction. Booklet. 8 x 11 in. 48 pp. Illustrated. Gives valuable data on the use of tile in roof construction. Sheetrock Pyrofill Roof Construction. Folder. $8\frac{1}{2} \times 11$ in. Illustrated. Covers use of roof surfacing which is poured in place.

SASH CHAIN

Smith & Egge Mfg. Co., The, Bridgeport, Conn. Chain Catalog. 6 x $8\frac{1}{2}$ in. 24 pp. Illustrated. Covers complete line of chains.

SASH CORD

Samson Cordage Works, Boston, Mass. Catalog. $3\frac{1}{2} \times 6\frac{1}{4}$ in. 24 pp. Illustrated. Covers complete line of rope and cord.

SEWAGE DISPOSAL

Chicago Pump Co., 2336 Wolfram St., Chicago, Ill. Flush-Kleen Dry Basin Sewage Ejector. Booklet, 16 pp., $8\frac{1}{2} \times 11$ in. Illustrations and data on an important detail of equipment.

SCREENS

American Brass Co., The, Waterbury, Conn. Facts for Architects About Screening. Illustrated folder, $9\frac{1}{2} \times 11\frac{1}{4}$ in., giving actual samples of metal screen cloth and data on fly screens and screen doors.

Athey Company, 4015 West 65th St., Chicago, Ill. The Athey Perennial Window Shade. An accordian pleated window shade, made from translucent Herringbone woven Coutil cloth, which raises from the bottom and lowers from the top. It eliminates awnings, affords ventilation, can be dry-cleaned and will wear indefinitely.

The Higgin Manufacturing Co., Newport, Ky. Your Home Screened the Higgin Way. Booklet. $8\frac{1}{2} \times 11\frac{1}{2}$ in. 13 pp. Illustrated in colors. Complete description of Higgin Screens, designed to meet every need.

SEWAGE DISPOSAL

Kewanee Private Utilities, 442 Franklin St., Kewanee, Ill. Specification Sheets. $7\frac{1}{2} \times 10\frac{1}{2}$ in. 40 pp. Illustrated. Detailed drawings and specifications covering water supply and sewage disposal systems.

SHELVING-STEEL

David Lupton's Sons Company, Philadelphia, Pa. Lupton Steel Shelving. Catalog D. Illustrated brochure, 40 pp., $8\frac{1}{2} \times 11$ in. Deals with steel cabinets, shelving, racks, doors, partitions, etc.

SIDEWALKS and DRIVEWAYS

National Steel Fabric Co., Pittsburgh, Pa. Sidewalks and Driveways. Folder, $8\frac{1}{2} \times 11$ in. Practical information on laying reinforced concrete sidewalks and driveways. Detailed explanation of steel fabric reinforcement and its uses for these purposes.

SOUND DEADENER

Cabot, Inc., Samuel, Boston, Mass. Cabot's Deadening Quilt. Brochure $7\frac{1}{2} \times 10\frac{1}{2}$ ins., 28 pp., Illustrated. Gives complete data regarding a well-known protection against sound.

STONE, BUILDING

Indiana Limestone Company, Bedford, Ind. Volume 3, Series A-3. Standard Specifications for Cut Indiana Limestone work, $8\frac{1}{2} \times 11$ in. 56 pp. Containing specifications and supplementary data relating to the best methods of specifying and using this stone for all building purposes.

Vol. 1. Series B. Indiana Limestone Library. 6 x 9 in. 36 pp. Illustrated. Giving general information regarding Indiana Limestone, its physical characteristics, etc.

Vol. 4. Series B. Booklet. New Edition. $8\frac{1}{2} \times 11$ in. 64 pp. Illustrated. Indiana Limestone as used in Banks.

Volume 5. Series B. Indiana Limestone Library. Portfolio. $11\frac{1}{2} \times 8\frac{1}{4}$ in. Illustrated. Describes and illustrates the use of stone for small houses with floor plans of each.

Volume 6. Series B—Indiana Limestone School and College Buildings. $8\frac{1}{2} \times 11$ in., 80 pages, illustrated.

Volume 12. Series B—Distinctive Homes of Indiana Limestone. $8\frac{1}{2} \times 11$ in., 48 pages, illustrated.

Old Gothic Random Ashlar. $8\frac{1}{2} \times 11$ in., 16 pages, illustrated.

STORE FRONTS

Brasco Manufacturing Co., 5025-35 South Wabash Avenue, Chicago, Ill.

Portfolio. $8\frac{1}{2} \times 11$ in. 32 pp. Illustrated. Selected examples of Brasco Copper Store Fronts suitable for different businesses and varying conditions of locations.

Catalog 28. $8\frac{1}{2} \times 10\frac{1}{4}$ in. 20 pp. Illustrated with plates. Details of Brasco Copper Store front construction. Also showcases, ventilator sashes.

Detail Sheets. Set of five sheets giving details and suggestions for store front designing enclosed in envelope convenient for filing.

Brasco Copper Store Fronts; Series 202, Brasco Standard Construction. Illustrated brochure. 16 pp. $8\frac{1}{4} \times 11$ ins. Complete data on an important type of building.

Brasco Copper Store Fronts; Series 500, All-copper Construction. Illustrated brochure. 20 pp. $8\frac{1}{2} \times 11$ ins. Deals with store fronts of a high class.

Kawneer Co., The, Niles, Mich.

A Collection of Successful Designs. Catalog. $9\frac{1}{2} \times 6\frac{1}{4}$ in. 64 pp. Illustrated. Showing by use of drawings and photographs many types of Kawneer Solid Copper Store Fronts.

Catalog I, 1925 Edition. $8\frac{1}{2} \times 11$ in. 32 pp. Illustrated. Details of copper store front construction.

Metal Store Fronts. Sheets, 17 x 22 in. Draftsmen's details of copper store fronts for use in tracing.

Zouri Drawn Metals Company, Chicago Heights, Ill. Zouri Safety Key-Set Store Front Construction. Catalog. $8\frac{1}{2} \times 10\frac{1}{4}$ in. 60 pp. Illustrated. Complete information with detailed sheets and installation instructions convenient for architects' files.

International Store Front Construction. Catalog. $8\frac{1}{2} \times 10$ in. 70 pp. Illustrated. Complete information with detailed sheets and installation instructions convenient for architects' files.

SWIMMING POOL CONSTRUCTION

Sandusky Cement Co., Dept. F., Cleveland, Ohio.

Medusa Pool Book. Booklet. $8\frac{1}{2} \times 11$ ins. 16 pp. Illustrated. Valuable work on bathing pools, indoors and outdoors.

SWIMMING POOL EQUIPMENT & STERILIZATION

R. U. V. Company, Inc., 383 Madison Avenue, New York City. Water Sterilization by Means of Ultra Violet Rays. Booklet $8\frac{1}{2} \times 11$ in. 16 pp. Full data on a system of purifying water.

Swimming Pool Sterilization. Booklet $8\frac{1}{2} \times 11$ in. 24 pp. Describes a method purifying water in bathing pools.

Wallace & Tierman Company, Newark, N. J.

The W. & T. Chlorometer, Technical Publication, No. 55. Booklet, $8\frac{1}{2} \times 11$ in. 8 pp. Illustrated. A useful brochure dealing with the value of pure water and the importance of the chlorination process in sterilization.

TECHNICAL PAINTING

Toch Brothers, 110 East 42nd Street, New York City.

Specifications for Dampproofing, Waterproofing, Enameling and Technical Painting. Complete and authoritative directions for use of an important line of materials.

TERRA COTTA

National Terra Cotta Society, 19 West 44th St., New York, N. Y.

Standard Specifications for the Manufacture, Furnishing and Setting of Terra Cotta. Brochure $8\frac{1}{2} \times 11$ in. 12 pp. Furnishing and Setting of Terra Cotta, consisting of complete detail Specification, Glossary of Terms Relating to Terra Cotta and Short Form Specification for incorporating in Architects' Specifications.

Color in Architecture. Revised Edition. Permanently bound volume $9\frac{1}{2} \times 12\frac{1}{2}$ in., containing a treatise upon the basic principles of color in architectural design, illustrating early European and modern American examples. Excellent illustrations in color.

Present Day Schools. $8\frac{1}{2} \times 11$ in. 32 pp. Illustrating 42 examples of school architecture with article upon school building design by James O. Betelle, A. I. A.

Better Banks. $8\frac{1}{2} \times 11$ in. 32 pp. Illustrating many banking buildings in terra cotta with an article on its use in bank design by Alfred C. Bossom, Architect.

TILE, HOLLOW

National Fire Proofing Co., 250 Federal St., Pittsburgh, Pa.

Standard Wall Construction Bulletin 174. $8\frac{1}{2} \times 11$ in. 32 pp. Illustrated. A treatise on the subject of hollow tile wall construction.

Natco on the Farm. $8\frac{1}{2} \times 11$ in. 38 pp. Illustrated. A treatise on the subject of fire safe and permanent farm building construction.

Natco Homes and Garages. Booklet. 7 x 10 in. 32 pp. Illustrated. Showing the use of Natco Hollow Tile for private residences.

TREADS

The Tri-lok Company, 5515 Butler Street, Pittsburgh, Pa.

What a Difference Three Locks Make. Folder. 4 pp. $8\frac{1}{2} \times 11$ ins. Deals with a means of holding slender members of metal in accurate alignment.

VACUUM CLEANING APPARATUS

The Spencer Turbine Company, Hartford, Conn.

Vacuum Cleaning Apparatus for all purposes. Booklet. 32 pp. Illustrated. Complete information on product, showing prominent buildings equipped with this system.

VALVES

Crane Co., 836 S. Michigan Ave., Chicago, Ill.

No. 51. General Catalogue. Illustrated. Describes the complete line of the Crane Co.

Illinois Engineering Co., Racine Ave., at 21st St., Chicago, Ill.

Catalog. $8\frac{1}{2} \times 11$ in. 88 pp. Illustrated.

Jenkins Bros., 80 White Street, New York.

The Valve Behind a Good Heating System. Booklet $4\frac{1}{2} \times 7\frac{1}{2}$ in. 16 pp. Color plates. Description of Jenkins Radiator Valves for steam and hot water, and brass valves used as boiler connections.

“Not all asphalts will do for roofing”

says Henry C. Hibbs

“TESTS that we have made show a great deal of variation in the qualities or characteristics of asphalts, and not all asphalts will do for roofing purposes.” This statement was made recently by Henry C. Hibbs, well-known architect of Nashville, Tennessee.

“There is a marked difference in melting point, and some asphalts are harder and some less elastic than others. A good roofing asphalt must not become brittle in cold weather nor flow in hot weather. It should be stiffly elastic in a temperature range from 15° below zero to 125° above. Between these points it should neither flow nor crack.

“And the asphalt must not be too volatile. Otherwise, the oils will dry out, leaving almost pure carbon, which soon goes to pieces.”

Many buildings designed by Mr. Hibbs are covered with Carey roofs. The asphalt in Carey Built-up Roofs is specially refined and blended at the Carey plant for roofing purposes exclusively. It will not melt below 215°, and retains its flexibility in the coldest weather. On buildings all over the country—office structures, factories, hotels, schools—on such buildings as the New Madison Square Garden in New York, the 16-acre Atwater Kent factory, the Chicago Coliseum and Cleveland Auditorium—Carey Built-up Roofs are giving proof of the quality built into them. Full information on request.

THE PHILIP CAREY COMPANY

Lockland, Cincinnati, Ohio

Carey
BUILT-UP ROOFS

NOTE TO ARCHITECTS:
Write for our Architects'
Specification Book.

American Trust Company Building,
Nashville, Tenn.—one of the many,
splendid, Carey-roofed structures de-
signed by Henry C. Hibbs, who is
numbered among the best known
architects in the South.

“A ROOF FOR EVERY BUILDING”





How Big is This Hotel?

Is it of 100 rooms? 500? Neither. It's a lobby corner of Hotel Lykens, the 48-room Hockenbury financed community hotel in Lykens, Pa. Only 48 rooms, but it's attracting state-wide attention; speeding up and toning up general business and realty values for everybody in Lykens. Yes, and it's bringing in outside dollars, too!

Being Hockenbury financed, it is properly financed; properly located; properly managed.

The **FINANCIALIST**, a journal devoted to community hotel finance, may help YOUR community acquire a similarly modern hotel. Your name on our complimentary list, "F-12," brings it without obligation.

The HOCKENBURY SYSTEM Inc.
HARRISBURG, - PENNSYLVANIA

SELECTED LIST OF MANUFACTURERS' PUBLICATIONS—Continued from page 146

VALVES—Continued

Jenkins Valves for Plumbing Service. Booklet. 4½ x 7½ in. 16 pp. Illustrated. Description of Jenkins Brass Globe, Angle Check and Gate Valves commonly used in home plumbing, and Iron Body Valves used for larger plumbing installations.

Mueller Co., Decatur, Ill.

Catalog G, 8 x 11 in., 316 pages. Profusely illustrated. Contains full data on plumbing, water and gas brass goods, including valves, faucets, traps, regulators, built-in bath equipment, and automatic systems of hot water control. Complete details are presented with a number of data sheets showing roughing-in measurements for built-in bath equipment.

VENETIAN BLINDS

Burlington Venetian Blind Co., Burlington, Vt.

Venetian Blinds. Booklet, 7 in. x 10 in., 24 pages. Illustrated. Describes the "Burlington" Venetian blinds, method of operation, advantages of installation to obtain perfect control of light in the room.

VENTILATION

American Blower Co., Detroit, Mich.

American H. S. Fans. Brochure, 28 pp., 8½ x 11 in. Data on an important line of blowers.

Duriron Company, Dayton, Ohio.

Acid-proof Exhaust Fans. Folder, 8 x 10½ ins., 8 pp. Data regarding fans for ventilation of laboratory fume hoods. Specification Form for Acid-proof Exhaust Fans. Folder, 8 x 10½ ins.

Globe Ventilator Company, 205 River Street, Troy, N. Y.

Globe Ventilators Catalog. 6 x 9 in. 32 pp. Illustrated profusely. Catalog gives complete data on "Globe" ventilators as to sizes, dimensions, gauges of material and table of capacities. It illustrates many different types of buildings on which "Globe" ventilators are in successful service, showing their adaptability to meet varying requirements.

Peerless Unit Ventilation Company, Long Island City, N. Y.

PeerVent Heating and Ventilating Unit. Brochure 6 x 6½ in. Illustrated. Valuable data on apparatus for ventilating and heating buildings of different types.

Van Zile Ventilating Corporation, 155 East 42nd Street, New York, N. Y.

The Ventadoor Booklet. 6½ x 3½ in. 16 pp. Illustrated. Describes and illustrates the use of the Ventadoor for Hotels, Clubs, Offices, etc.

WATERPROOFING

Carey Company, The Philip, Lockland, Cincinnati, Ohio.

Waterproofing Specification Book. 8½ x 11 in. 52 pp.

The General Fireproofing Company, Youngstown, Ohio.

Waterproofing Handbook. Booklet. 8½ x 11 in. 72 pp. Illustrated. Thoroughly covers subject of waterproofing concrete, wood and steel preservatives, dustproofing and hardening concrete floors, and accelerating the setting of concrete. Free distribution.

A. C. Horn Company, Long Island City, N. Y.

Waterproofing. Folder. 9½ x 11½ in. Contains folders giving data on excellent waterproofing and damp-proofing materials.

Master Builders Company, Cleveland, Ohio.

Waterproofing and Dampproofing and Allied Products. Sheets in loose index file, 9 x 12 in. Valuable data on different types of materials for protection against dampness.

Rubberoid Co., The, 95 Madison Ave., New York.

Impervite. Circular. 8½ x 11 in. 4 pp. Illustrated. An integral water-proofing compound for concrete, stucco, cement, mortar, etc.

Sandusky Cement Co., Dept. F., Cleveland, Ohio.

Medusa Waterproofing. Booklet. 6½ x 9 in. 38 pp. Illustrated. Medusa Waterproofing; General specifications. Booklet. 8½ x 11 ins. 32 pp.

Sommers & Co., Ltd., 342 Madison Ave., New York City.

"Permantile Liquid Waterproofing" for making concrete and cement mortar permanently impervious to water. Also circulairs on floor treatments and cement colors. Complete data and specifications. Sent upon request to architects using business stationery. Circular size, 8½ x 11 in.

Sonneborn Sons, Inc., L., 116 Fifth Ave., New York, N. Y.

Pamphlet. 3½ x 8½ in. 8 pp. Explanation of waterproofing principles. Specifications for waterproofing walls, floors, swimming pools and treatment of concrete, stucco and mortar.

Toch Brothers, 110 East 42nd Street, New York City.

Specifications for Dampproofing, Waterproofing, Enameling and Technical Painting. Complete and authoritative directions for use of an important line of materials.

WEATHER STRIPS

Chamberlin Metal Weather Strip Company, 1644 Lafayette Boulevard, Detroit, Mich.

Chamberlin Metal Weather Strip Details, 1925 edition. Catalog 8½ x 11 in. 48 pp. Complete specifications and full-sized details. With or without 9 x 11½ in. folder conforming to A. I. A. filing system. May also be used in loose leaf form. Excluding Cold and Dust with Chamberlin for 32 years. Booklet 5½ x 7½ in. 16 pp. Illustrated. Completely and interestingly illustrates application of Chamberlin equipment.

The Higgin Manufacturing Co., Newport, Ky.

Higgin All-Metal Weather Strips. Booklet. 6 x 9 in. 21 pp. Illustrated in colors. Describes various types of Higgin Weather Strips for sealing windows and doors against cold and dust.

WINDOWS

David Lupton's Sons Company, Philadelphia, Pa.

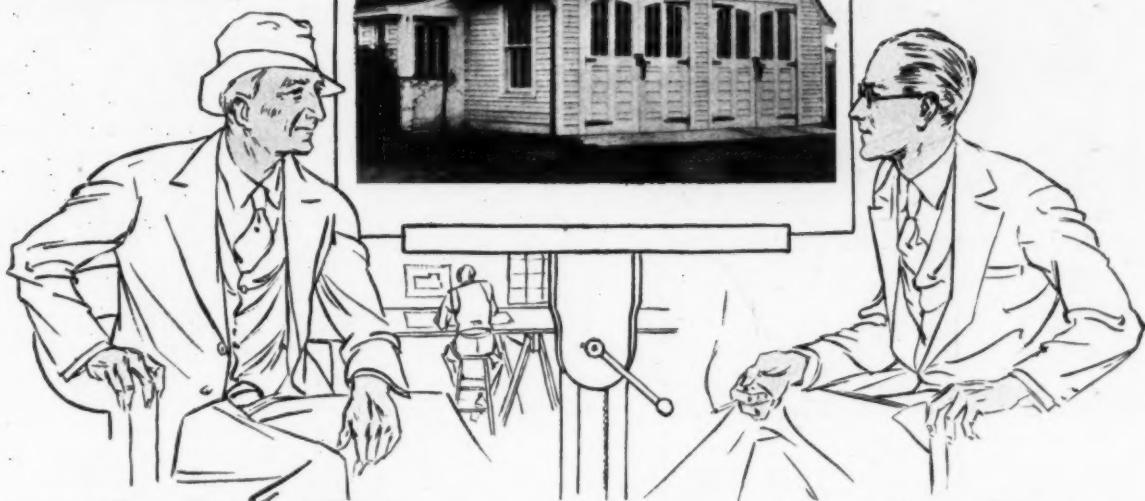
Lupton Pivoted Sash, Catalog 12-A. Booklet 48 pp. 8½ x 11 in. Illustrates and describes windows suitable for manufacturing buildings.

WINDOWS, CASEMENT

Richards-Wilcox Mfg. Co., Aurora, Ill.

Casement Window Hardware. Booklet. 24 pp. 8½ x 11 in. Illustrated. Shows typical installations, detail drawings, construction details, blue-prints if desired. Describes AIR-way Multifold Window Hardware.

"Cal" Pine is the official guardian of the grades. His long and varied experience with many woods as a contractor in the building field together with his later grading and lumber manufacturing experience equip him to discuss your problems intelligently and helpfully.



"Cal" Pine and the Architect Discuss Garages and Garage Doors

WHAT are your reasons, 'Cal' Pine, for recommending California White Pine and Sugar Pine for garages and garage doors?"

"All the reasons for the use of these woods in house construction apply to garage construction. I don't know any other wood that has so many service qualities for the purpose. For framing, these pines have sufficient strength and are free from twisting. Freedom from warping and end shrinking keeps joints tight—this is an important quality, both in garages and garage doors. The uniform soft texture and close, even grain of California Pine make cutting and sawing easy without splintering, hence less waste of material. It takes and holds nails tightly, tight up to edges and ends without splitting, it permits accurate, permanent joinery and faithful rendering of the sharp lines and contours of architectural designs. Garage doors made of California Pine have the strength to stand hard knocks but they are light enough in weight to hang true on hinges without strain. They are not subject to twisting, swelling or contracting—they open and shut without sticking."

"How about painting qualities of California Pine?"

"There too, you have many advantages in specifying this wood. It is most economical to paint. Its smooth, satiny surface requires less time for painting and because of its own natural light color it requires fewer coats for a fine job. Absence of grain-raising tendencies further insure the lasting beauty of the painter's work."

"Does California Pine come in all forms for garage construction?"

"Yes—dimension for framing comes in standard grades and sizes and for siding you can have all sizes of bevel siding, even the extra wide known as Eastern Colonial, while all patterns of drop and rustic sidings are always available, made from either select or common grades, usually from the latter, which are economical in cost, smoothly milled and when painted make a first class job suitable for any garage. My illustrated book of grades, forms and sizes will give you full specification data. A postcard will bring you a copy without cost."



CALIFORNIA WHITE AND SUGAR PINE MANUFACTURERS ASSOCIATION
Also producers of CALIFORNIA WHITE FIR • CALIFORNIA DOUGLAS FIR • CALIFORNIA INCENSE CEDAR
 654 CALL BUILDING, SAN FRANCISCO

california PINE

California White Pine (tradename)

California Sugar Pine



MEMORIAL AMPHITHEATRE, ARLINGTON NATIONAL CEMETERY, WASHINGTON, D. C. The great arcade is covered with a layer of Genasco Asphalt Mastic $1\frac{1}{4}$ inches in thickness. Contractor: R. V. Roulon, Philadelphia.

They ripped it off and put on Genasco!

When the covering on this magnificent memorial failed to afford the protection for which it was chosen, it was decided to turn to nature's own unequalled wear and weather resistant—and the handsome arcade is now adequately protected by Genasco Asphalt Mastic.

Because it is made from Trinidad Native-Lake Asphalt, it possesses the same protective properties which have made Trinidad famed the world over as a street-paving material for the past half-century.

So extremely satisfactory has Genasco Asphalt Mastic proved as a flooring in manufacturing establishments, warehouses, hospitals, stores, schools, and other public and private buildings, that it has come into use for numerous other purposes where resistance to wear and weather is an important factor.

Genasco Asphalt Mastic is resilient, noiseless, dustless, sanitary, water-proof, and gives such service as no other flooring can equal. Laid in one unbroken sheet—as a new floor or over old floors—and ready for use in a few hours.

Let us send you complete information about this wonderful material. Write us today.

The Barber Asphalt Company
Philadelphia

New York Chicago Pittsburg St. Louis Kansas City San Francisco

Genasco
REG. U. S. PAT. OFF.
Asphalt Mastic
The modern flooring for large areas

SELECTED LIST OF MANUFACTURERS' PUBLICATIONS—Continued from page 148

WINDOWS, CASEMENT—Continued

Crittall Casement Window Co., 10951 Hearn Ave., Detroit, Mich. Catalog No. 22. 9 x 12 in. 76 pp. Illustrated. Photographs of actual work accompanied by scale details for casements and composite steel windows for banks, office buildings, hospitals and residences.

Hope & Sons, Henry, 103 Park Ave., New York, N. Y. Catalog. 12 $\frac{1}{4}$ x 18 $\frac{1}{2}$ in. 30 pp. Illustrated. Full size details of outward and inward opening casements.

David Lupton's Sons Company, Philadelphia, Pa. Lupton Casement of Copper-Steel. Catalog C-122. Booklet 16 pp. 8 $\frac{1}{2}$ x 11 in. Illustrated brochure on casements, particularly for residences.

Truscon Steel Co., Youngstown, Ohio. Truscon Steel Casements. Booklet, 8 $\frac{1}{2}$ x 11 in., 24 pp. Handsomely printed with illustrations of houses equipped with Truscon Casement Windows. Illustrations of various units and combinations. Specifications, types and sizes and details of construction.

Architectural Details. Booklet, 8 $\frac{1}{2}$ x 11 in., 16 pp. Tables of specifications and typical details of different types of construction.

List of Parts for Assembly. Booklet, 8 $\frac{1}{2}$ x 11 in., 16 pp. Full lists of parts for different units.

WINDOWS, STEEL AND BRONZE

The Kawneer Company, Niles, Mich. Kawneer Simplex Windows. Catalog. 8 $\frac{1}{2}$ x 10 $\frac{1}{2}$ in. 16 pp. Illustrated. Complete information with measured details, of Kawneer Simplex Weightless Reversible Window Fixtures, made of solid bronze. Shows installations in residences and buildings of all sorts.

Detail Sheets and Installation Instructions. Valuable for architects and builders.

Metal Windows. Catalog. 8 $\frac{1}{2}$ x 11 in. 18 pp. Illustrated. Features double-lining and casement windows of metal.

David Lupton's Sons Company, Philadelphia, Pa. A Rain-shed and Ventilator of Glass and Steel. Pamphlet, 4 pp. 8 $\frac{1}{2}$ x 11 in. Deals with Pond Continuous Sash, Sawtooth Roofs, etc.

How Windows Can Make Better Homes. Booklet. 3 $\frac{1}{2}$ x 7 in. 12 pp. An attractive and helpful illustrated publication on use of steel casements for domestic buildings.

Truscon Steel Company, Youngstown, Ohio.

Truscon Mechanical Operators for Steel Windows. Brochure, 8 $\frac{1}{2}$ x 11 in., 65 pp. Complete description of various kinds of installations with drawings of details.

Drafting Room Standards. Book, 8 $\frac{1}{2}$ x 11 in., 120 pages of mechanical drawings showing drafting room standards, specifications and construction details of Truscon Steel Windows, Steel Lintels, Steel Doors and Mechanical Operators.

Daylighting and Ventilating Power Houses. 32-pp. booklet, 8 $\frac{1}{2}$ x 11 in., illustrating the economical application of Truscon Windows in modern power house design.

Truscon Solid Steel Double-Hung Windows. 24-pp. booklet, 8 $\frac{1}{2}$ x 11 in., containing illustrations of buildings using this type of window. Designs and drawings of mechanical details. Truscon Donovan Awning Type Steel Windows. 12-pp. booklet, 8 $\frac{1}{2}$ x 11 in., illustrating typical installation and giving construction details.

WOOD—See also Millwork

American Walnut Mfrs. Association, 618 So. Michigan Blvd., Chicago, Ill.

American Walnut. Booklet. 7 x 9 in. 45 pp. Illustrated. A very useful and interesting little book on the use of Walnut in Fine Furniture with illustrations of pieces by the most notable furniture makers from the time of the Renaissance down to the present.

"American Walnut for Interior Woodwork and Paneling." 7 x 9 in. pages, illustrated. Discusses interior woodwork, giving costs, specifications of a specimen room, the different figures in Walnut wood, Walnut floors, finishes, comparative tests of physical properties and the advantages of American Walnut for woodwork.

California White and Sugar Pine Mfrs. Assn., San Francisco, Calif. Information Sheet No. 1, California White Pine; Information Sheet No. 2, California Sugar Pine. Illustrated booklets 8 x 10 $\frac{1}{2}$ in. First of a series of Information Sheets on these woods and their uses for construction and finish.

Introducing "Cal" Pine, Guardian of the Grades. Booklet, 50 pp., 7 $\frac{1}{2}$ x 10 $\frac{1}{4}$ ins. Illustrated. Valuable data on siding, bathtubs, flooring, mouldings, etc.

A series of information sheets on California White Pine, Sugar Pine, California White Fir, Douglas Fir and Incense Cedar. Technical data as to supply, production, quantities, uses, grades and sizes of all lumber products of the mills in the Association. Furnished with standard size filing folder for easy reference. Information sheets are 8 x 10 $\frac{1}{2}$ in. text matter is arranged in uniform style.

Curtis Companies Service Bureau, Clinton, Iowa.

Better Built Homes. Vols. XV-XVIII, incl. Booklet, 9 x 12 in. 40 pp. Illustrated. Designs for houses of five to eight rooms, respectively, in several authentic types, by Trowbridge & Ackerman, architects, for the Curtis Companies.

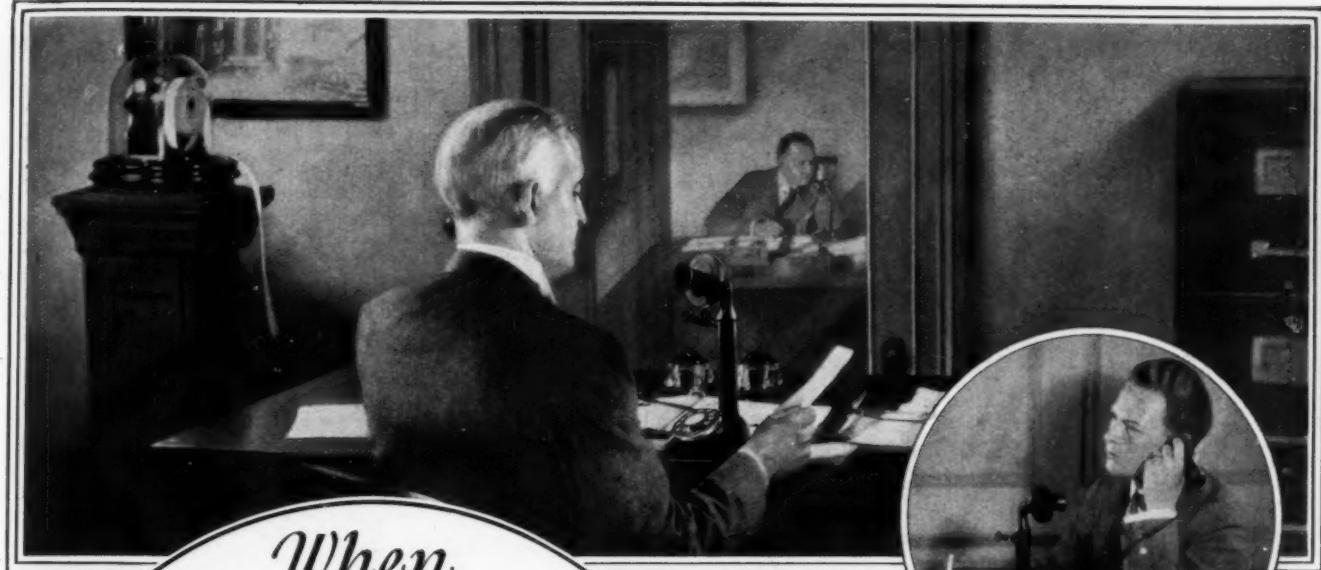
Long-Bell Lumber Co., Kansas City, Mo. The Perfect Floor. Booklet 5 $\frac{1}{2}$ x 7 $\frac{1}{2}$ in. 16 pp. Illustrated. Valuable for the data given on the use of wood for floors.

Saving Home Construction Costs. Booklet 4 $\frac{1}{2}$ x 7 $\frac{1}{2}$ in. 24 pp. Discusses economy and value in domestic building.

Experiences in Home Building. Booklet 6 x 9 in. 16 pp. Records the testimony of a number of builders and contractors as to the value of certain materials.

The Post Everlasting. Booklet 8 x 11 in. 32 pp. Illustrated. Describes the production of posts and their use in various ways.

WOOD FINISHES—See Paints, Varnishes, Stains



When
PRI VACY
Counts

WHEN important matters are being discussed between executives by telephone — when the successful handling of matters requires not only absolute privacy, but instant and accurate connections — this is the time when business most appreciates these individual features of P-A-X.

By means of the P-A-X Conference Wire service — which necessitates no outside or switchboard calls — the executive can have several of his staff on the wire at one time. Each person, in his own private office, takes part in the general conference the same as if all were together in one room — and this with the assurance that no one can cut in.

This ability of P-A-X to delegate private inter-office calls direct to the persons concerned, isolating all switchboard or outside interferences and precluding even the possibility of "cut-ins", is one of the many reasons for its adoption by more than 2,000 banks, manufacturers, and other business organizations of every line, both in America and in foreign countries.

~Count on

P-A-X
PRIVATE AUTOMATIC EXCHANGE



P-A-X-ophone, Type 1

The P-A-X-ophone fills a rapidly growing need for an instrument with all of the compactness and efficiency of the conventional telephone, but with the additional advantage of having the transmitter and receiver in a single, easily-handled unit. This is the P-A-X-ophone Desk Set No. 1; available for use with all types of P-A-X.

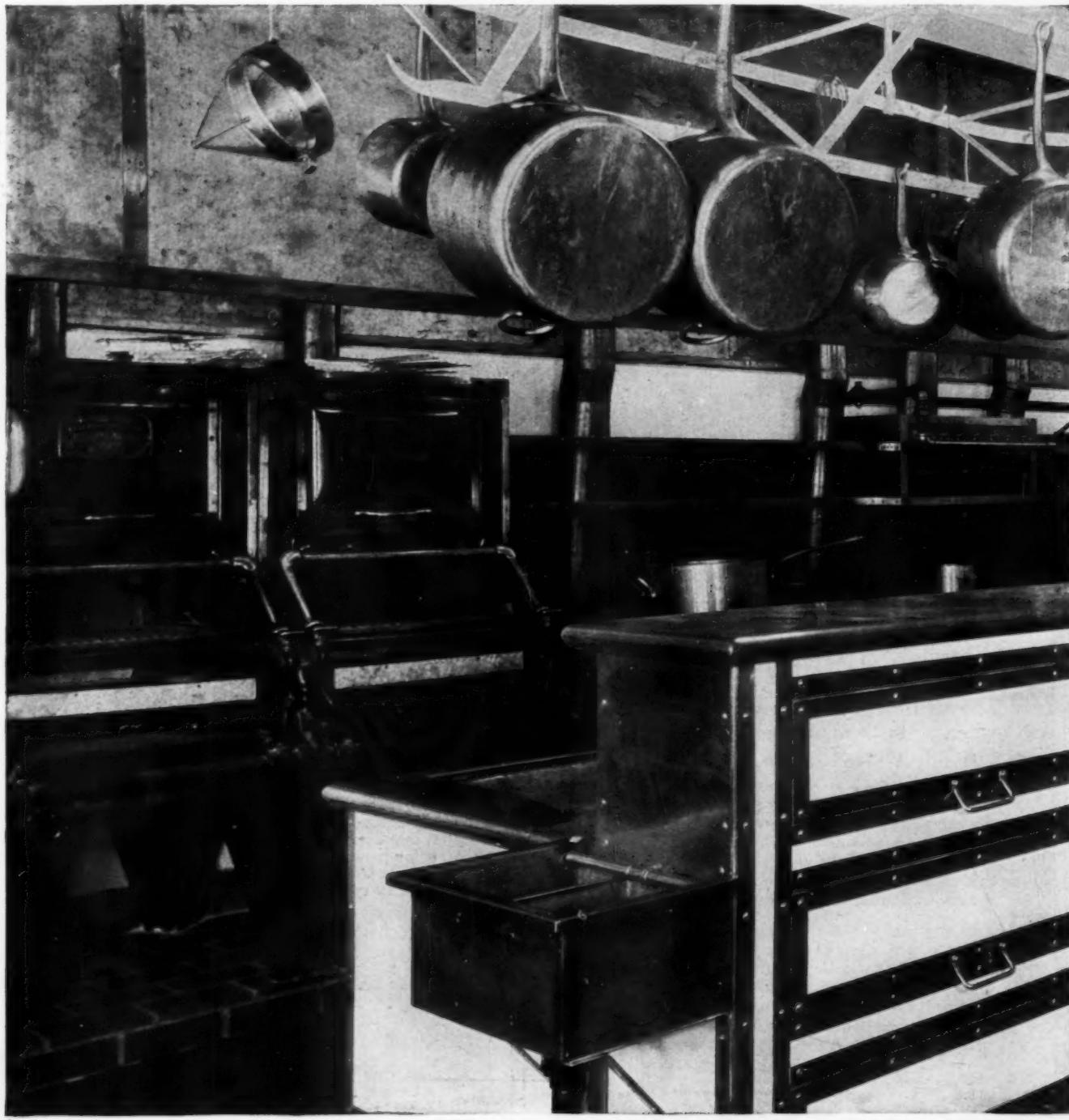


The P-A-X is, fundamentally, a private automatic telephone exchange built of the same Strowger type of automatic telephone equipment being so widely adopted for city service. The P-A-X may be furnished to include and co-ordinate such services as code call, conference, executive's priority, emergency alarm, etc., to meet individual needs.

Automatic Electric Inc.

Engineers, Designers and Manufacturers of the Automatic Telephone In Use the World Over.

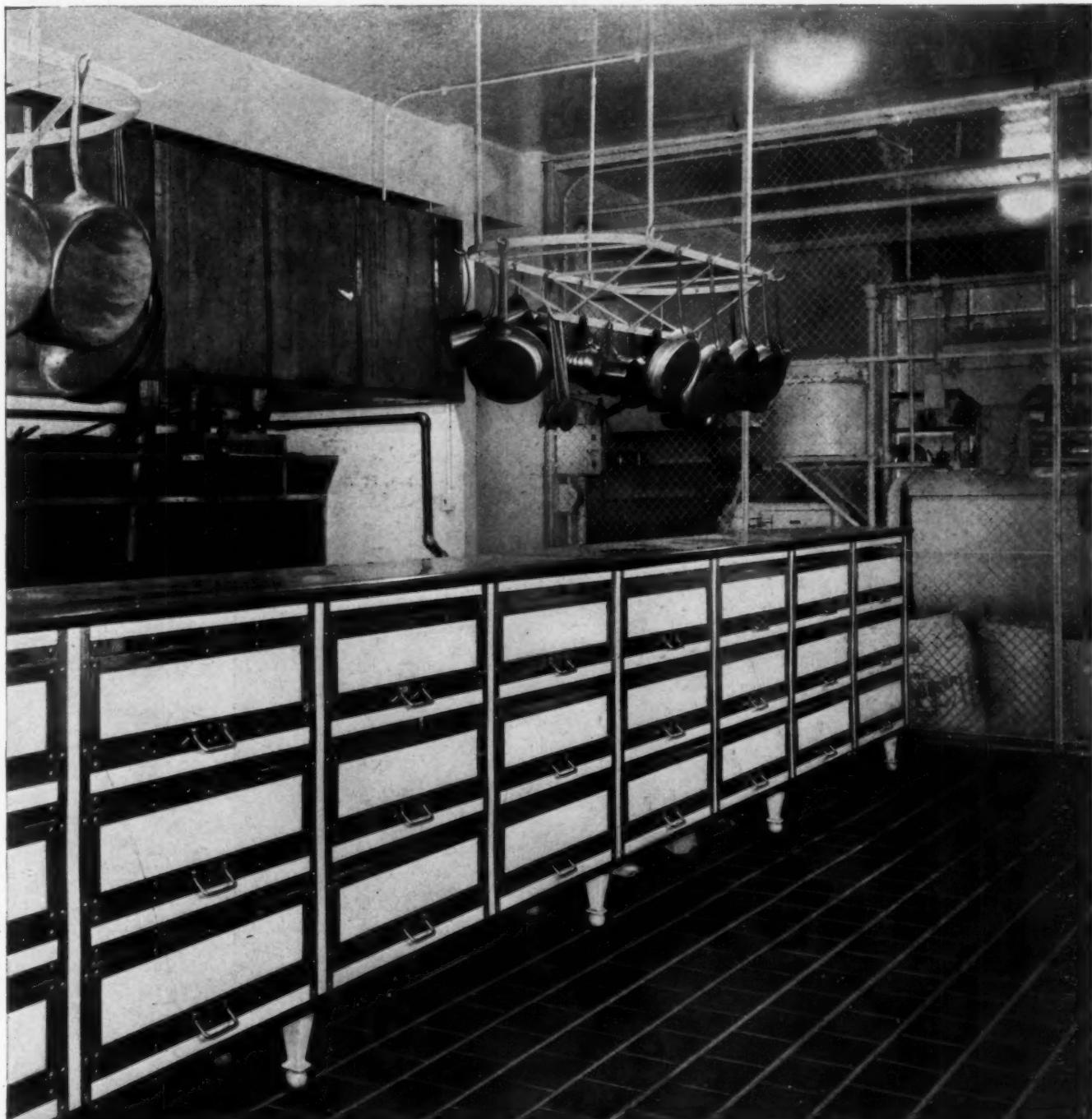
Home Office and Factory, CHICAGO, ILL. Branch Offices in all principal cities.



**Beauty and Enduring
Worth are Combined
in PIX Kitchens**

THE WORLD'S LEADING EQUIPMENT HOUSE FOR





The public may with freedom be invited to inspect any Albert Pick & Company Kitchen. Gleaming cleanliness is everywhere apparent. This Kitchen of the new Standard Club, Chicago, is a recent example of PIX Engineering

ALBERT PICK & COMPANY
208-224 WEST RANDOLPH ST. CHICAGO

HOTELS. RESTAURANTS. CLUBS. HOSPITALS



R. F. Bixby Residence, St. Louis, Mo. Beverley T. Nelson, Architect



*Residence Thos. J. Usher, Jr.,
Birmingham, Mich.
C. E. Reichle Co., Designers
and Builders*

Casements Have Varied Uses

The accompanying photographs illustrate the wide range of effects to which Crittall Standardized Casements are adapted. Beautiful steel casement windows give themselves to the architect's ideas of design in a multiplicity of ways. The different arrangements possible in wholly standard sizes, the varying widths in mullions and transom bars, the flexibility of beautiful leaded glass, all combine to assist the skillful designer in obtaining surpassingly beautiful effects.

Crittall Standardized Casements are made in both inward and outward opening types. They are guaranteed weather-tight. They are priced so low they are suitable for your most modest commissions. Their quality is such they will grace your finest work.

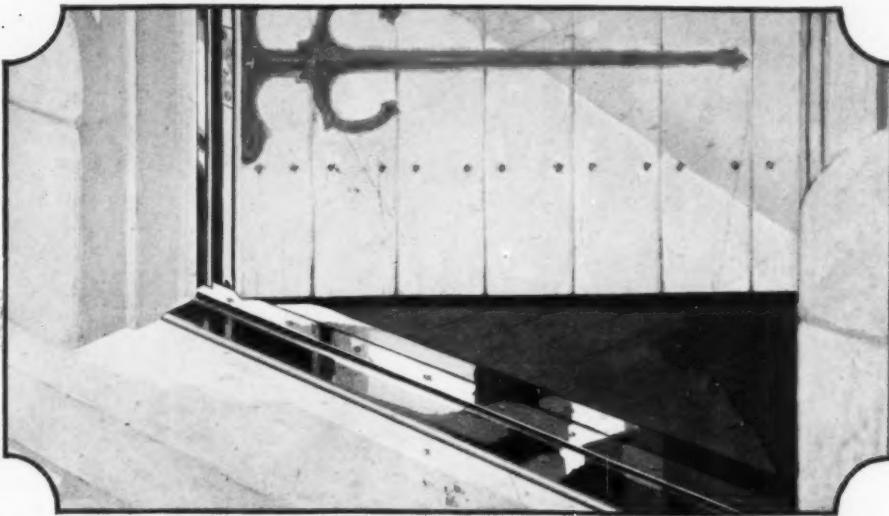
A catalog will be gladly mailed on request or our nearest representative will submit a sample for your inspection

CRITTALL
Standardized
Casements

CRITTALL CASEMENT WINDOW COMPANY Manufacturers
10969 HEARN AVENUE, DETROIT, MICHIGAN

Also Makers of Crittall Steel Casement Windows built to the architect's sizes, designs and specifications

Beauty plus Protection - CHAMBERLIN SILL-DOR-SEAL



CHAMBERLIN Sill-Dor-Seals become outstanding features of finer residential buildings because of the attractiveness and protection they lend to entrance doorways. Chamberlin Sill-Dor-Seals are made of extruded brass —highly polished and artistically formed. They are securely anchored to either wood, stone or metal sills where they seal door bottoms most effectively, shutting out draughts, rain, snow and dust. And at the same time, they add dignity and beauty to the building threshold. The inclusion of the extra wide Chamberlin Sill-Dor-Seal No. 36 puts the final touch to Chamberlin door equipment which seals jambs and heads of entrance doors by interlocking weather strip members or by highly tempered, hemmed edge, flexible spring bronze. Send for detailed drawings and specification sheets.

Chamberlin installation practice specifies that the bottoms of doors shall be rabbeted $\frac{1}{4}$ inch deep \times $\frac{1}{8}$ inches wide ($\frac{1}{4}$ inch deep \times 1-inch wide for $\frac{1}{2}$ inch doors) and equipped with a cold rolled bronze hook, .0225-inch, thick, securely nailed so as to tightly interlock with the inner lip of the Sill-Dor-Seal when doors are closed.

CHAMBERLIN
SILL-DOR-SEAL
"FOR OUTSIDE DOORS"

CHAMBERLIN METAL WEATHER STRIP COMPANY
West Lafayette Blvd., Detroit, Michigan

100 Sales and Service Branches Throughout the United States



ART METAL places at the disposal of architects and builders the experience of a third of a century in the designing and execution of interior equipment in metal. Many of the finest of modern buildings are equipped throughout with Art Metal Doors, Trim, etc. A number of these installations are illustrated in the Art Metal Hollow Metal Catalog.

TO both the Architect and the Builder this factful Catalog of **ART METAL** Hollow Metal Doors and Trim presents an invaluable fund of information and suggestion applicable to every project requiring a hollow metal installation. Picturing representative **ART METAL** installations and a complete series of architectural detail plates, it furnishes data that invites constant and ready reference to its pages.

Limited in edition, the Art Metal Hollow Metal Catalog is available to executives only. A request for it on your letterhead will bring you your registered copy.

Art Metal

Hollow Metal Doors and Trim. Steel and Bronze Equipment for Banks, Libraries, Public Buildings. Steel Office Equipment, Safes and Files.

ART METAL CONSTRUCTION CO., JAMESTOWN, N. Y.



Unsightly Window Shades
are a thing of the past.

The Elks Memorial Building, Chicago, is
another of the fine buildings equipped
with Athey Perennial Shades

Athey Perennial Window Shades

Increase Architectural Beauty—yet are
the most practical shades made

Beauty must naturally be a first consideration in planning fine buildings—yet practicability must not be sacrificed. Shades are no longer a bothersome question for Athey Perennial Window Shades enhance architectural beauty **yet are the most practical shades made.**

The specially woven (non-fading) Coutil cloth of which they are made gives windows a draped appearance in harmony with the architectural effect of the building.



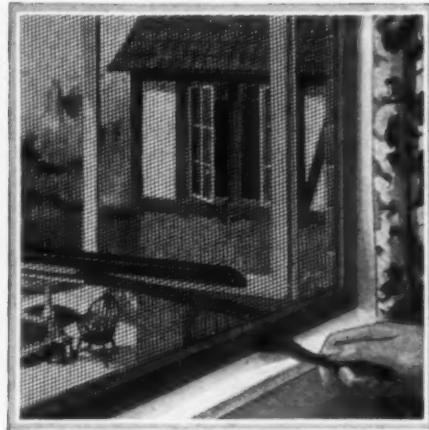
Room in the Elks Memorial in Chicago showing the versatility of Athey Shades. They are made in any length, and in widths up to 16 feet, for any type of window, including the difficult circle head type.

They run on strained wires eliminating all fluttering when the windows are open. The can be raised from the bottom, or lowered from the top, to shade the portion of the window that requires it without shutting out all the light and air. They do everything awnings can do, eliminating that expense, fire hazard and unsightliness. Yet thousands of installations—many of them 10 years old and more—prove they last so long they actually are the least expensive shades obtainable.

Athey Company

6025 West 65th Street - Chicago, Illinois

In Canada: CRESSWELL-McINTOSH, Reg'd
270 Seigneurs St., Montreal, Que.



Which answer would you give?

Sixty-five architects were recently called upon and their opinion of Win-Dor Casement Hardware asked. Our purpose at the time was merely to convince hardware dealers in California that there is a real market there and a real preference for our line.

But the answers we received were so outspokenly gratifying that we feel certain you will find them interesting.

26 architects promise to use Win-Dor in future.
22 say Win-Dor is the best they have seen and promise to use it.

3 promise to submit Win-Dor to their clients.
14 have accepted literature, sample specifications, etc., but make no definite promise.

65
48 enthusiastic, 3 favorable
14 non-committal

We would like to call on every architect in the country. We would like to demonstrate Win-Dor equipment in every specification writer's office. But that is impossible.

However, we believe that the above figures prove conclusively that we have produced a better kind of casement hardware, a kind worth a few minutes of your time to investigate.

We, therefore, ask that you let us send you complete information and specification data on wood and metal casements.

There is no obligation whatsoever and we believe you owe it to your clients to learn fully about anything which is so widely endorsed as Win-Dor. Why not drop us a line today?

Win-Dor
CASEMENT HARDWARE
THE CASEMENT HARDWARE COMPANY
404-A North Wood Street, Chicago
CASEMENT HARDWARE HEADQUARTERS

AUSTRAL WINDOWS



VENTILATION
WITHOUT
DRAFT

AUSTRAL WINDOW CO.
101 PARK AVE., NEW YORK CITY

HOPE'S CASEMENTS



HENRY HOPE & SONS
103 PARK AVENUE NEW YORK



*The low cost
of these high-
grade windows
permits you to
use them thru-
out your client's
house for very
little money~*

THIS UNIT \$10.30

DAVID LUPTON'S SONS CO., PHILADELPHIA

LUPTON

STEEL CASEMENTS

BUY LUPTON CASEMENTS,
CASEMENT WINDOWS AND PIVOTED
SASH FROM LOCAL DEALERS STOCKS



ALL TYPES
OF STEEL
WINDOWS



Montgomery Ward Memorial Bldg.,
Medical and Dental Schools,
Northwestern University,
McKinlock Campus,
Chicago, Illinois.

James Gamble Rogers, Architect,
New York City.
Childs & Smith, Associate Architects,
Chicago, Ill.
W. L. Fergus, Heating Engineer,
Chicago, Ill.
Wm. A. Pope, Heating Contractor,
Chicago, Ill.

Arco Packless Valves for
steam, water or vapor, are
made in angle, corner and
globe patterns.

The 1500 valves in this famous building will need no attention

IN THIS newest addition at Northwestern University where Arco Packless Valves are installed on all of the 1500 radiators, there will be no trouble calls to stop leaks. And there will be no annual repacking to increase maintenance expense.

Arco Packless Valves were selected because they bring to every building these four advantages:

1. Arco Packless Valves are good looking. They add a finishing touch of smartness to a radiator.

2. They prevent leaks—one of which may cost more than all the valves in the building.
3. They pay for themselves by saving the annual expense of repacking.
4. They add to the comfort of the owner or his tenants. Arco Packless Valves open with one smooth turn.

A heating plant deserves accessories that insure perfect performance. Every radiator deserves an Arco Packless Valve.

The Arco Packless Valve is one of many heating accessories made and guaranteed by

AMERICAN RADIATOR COMPANY

816 So. Michigan Ave.

Specialties Department

Chicago, Ill.

ARCO Packless Valves

CHICAGO too favors AERO ~ The Radiator Vogue

In these two apartments, among the finest in Chicago, Aero Radiators were given the preference.

This merely points the way and strengthens the contention that Aero, the most approved of all new style radiation, has become *The Radiator Vogue*.

Manufacturers, throughout the country, are scrapping millions of dollars worth of equipment in an effort to produce a radiator similar in type. In fact, so popular has the Aero Radiator proven, its name has become synonymous of all so-called new style radiators.

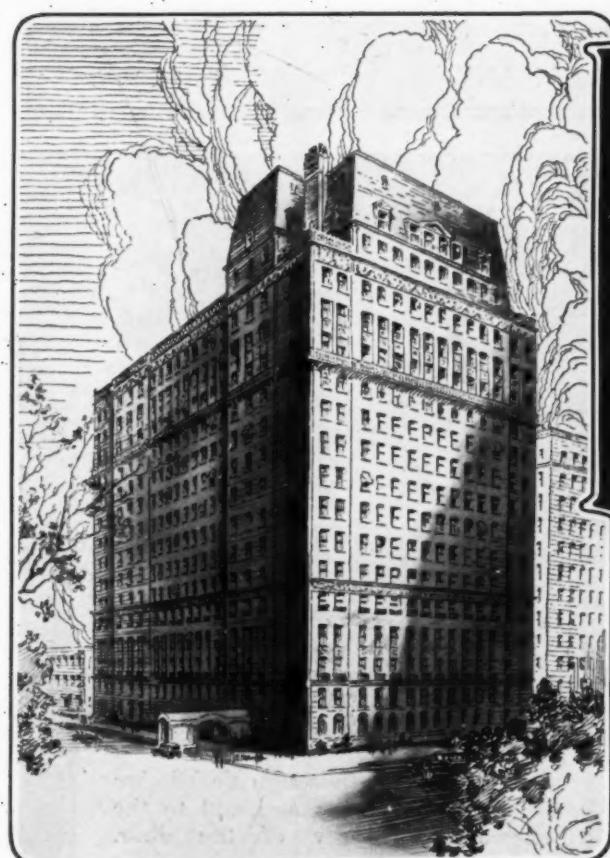
If you want a radiator you can use on every job and stand back of—if you want a beautiful, graceful, slender radiator that has a tremendous sales appeal and is readily acceptable everywhere—if you want a radiator that sells at the same standard sheet price as the old radiator types—if you want a radiator approved by Architects, Engineers and Heating Contractors alike—you want a *genuine AERO RADIATOR*; not an Aero type radiator.

Literature mailed free upon request.

NATIONAL RADIATOR COMPANY

JOHNSTOWN, PA.

New York Philadelphia Baltimore Washington Richmond Pittsburgh
Cincinnati Cleveland Chicago



At top:—Apartment, 1130
Lake Shore Drive, Chicago,
Illinois.

At lower left:—Cornelia
Apartment Hotel, Chicago.

Robert DeGoyer, Architect.
H. L. Clute & Co., Mechanical
Engineers.

Davis Construction Company,
Heating Contractors.

The beautiful, graceful, slender
and pleasingly proportioned
Aero Radiator is used through-
out on both of these buildings.

Above is shown the newest unit—4 column pattern—of the first and only complete line of new style radiators, which were introduced more than four years ago. Like the rest of the complete Line of Aero Radiators, this pattern is top and bottom push-nipple connected, which makes it not only leak proof but suitable to any method of heating, whether it be a steam, vapor or hot water job. Four patterns and eighteen heights comprise the Aero Line, from which you can pick a pattern and height to exactly suit your requirements.

BEAUTY and WARMTH with

AERO RADIATORS



THE "GLOBE" SKYLIGHT
A New Line Added to the "Globe" Ventilators

ARCHITECTS, builders and owners will effect a material saving in cost by using stock size skylights. The above illustration shows various types of "Globe" skylights which can be furnished in standard sizes.

"Globe" skylights are made of 24 gauge galvanized Armco Iron with $\frac{1}{4}$ in. rough wire glass, equipped with double condensation gutters, and are ventilated by "Globe"

ventilators of the proper sizes, which are also made of heavy galvanized Armco Iron.

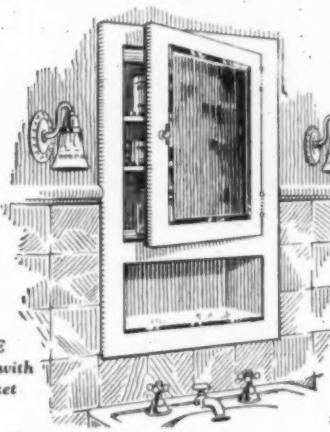
We shall be glad to furnish full information upon request and also to send Detail Sheet of the "Globe" ventilator which has back of it years of proved efficiency in the ventilation of buildings.

DEPT. F

GLOBE VENTILATOR COMPANY

TROY, N. Y.

HESS CABINETS
and MIRRORS
Snow-White Steel



STYLE E
to recess with
open pocket
below.

HESS Cabinets and Mirrors are **matchless** in their satiny snow-white coats;—**hand rubbed** in the manner the finest furniture is finished. Best polished plate glass mirrors, brass handles and hinges, heavily nickel plated.

They are suitable for the finest bathrooms,—low enough in price for the moderate price builder.

Specify them and please your client; See Sweet's Catalogue.
HESS WARMING & VENTILATING CO.
Makers of Hess Welded Steel Furnaces.
1216 S. Western Avenue, Chicago

VENTADOOR
A ventilating panel for doors



Ventadoors give thorough Ventilation
in the modern way and add to the
harmonious beauty of the door.

VAN ZILE VENTILATING
CORPORATION

155 EAST 42nd ST.
NEW YORK CITY

Announcing

The Dunham Differential Vacuum Heating System

A System of Heating which heats a building with coal—gas—or oil fuel, without the fuel and heat-waste of over-heating in mild weather.

SEVERAL years of intensive research work with analytical operative tests in the company's research laboratories, are back of this announcement of the Dunham Differential Vacuum Heating System. The practicability and fuel-saving efficiency of this new system of heating is further proved by its actual operation in several commercial installations. Performance, not guess work, is therefore the foundation of this announcement.

The Dunham Differential Vacuum Heating System provides a fixed differential that permits circulation of steam at all pressures and temperatures. Circulation is more uniformly distributed than possible heretofore, because the pressure (absolute) in the supply main is always slightly greater than that in the return main.

Outstanding features of this 1926 Dunham Contribution to the science of heating are (1) a much greater fuel economy when firing with coal; (2) a practical and economical use of gas and oil in all types of buildings.

The generation of steam, when starting a cold boiler begins at a much lower temperature than under atmospheric pressure because of the vacuum produced by the pump. The steam expands under the vacuum condition and fills the radiator with the result that substantially the entire radiator surface is working at either a high or low temperature.

DUNHAM
HEATING SERVICE

THIS Differential System will properly heat any building without the fuel and heat-waste of over-heating in mild weather. It furnishes steam to the radiators at a high degree of vacuum with correspondingly low radiator temperature, without water accumulating in radiators or steam leakage to returns.

This is accomplished by
—regulating the pressure, or vacuum, at which the steam circulates in the supply piping
—controlling the vacuum pump so that a substantially constant difference in pressure is maintained between the supply and return piping.

Pressure, or vacuum, is thus maintained on the steam supply to provide the desired room temperature, by controlling the heat emission from the radiators at the same rate as it is being lost from the building.

In mild weather the differential controller on the vacuum pump maintains the condition in the return mains at a pressure less, or vacuum greater, than in the supply mains. Circulation is therefore maintained irrespective of supply pipe pressure or vacuum. The system fills with steam at pressures below atmosphere and the Dunham Traps on the radiators function to pass all air and water and to close against steam under this wide range of conditions.

In severe weather the pressure can be regulated to supply steam at such a rate that the supply piping and radiators will have a pressure greater than atmosphere.

IT WILL be recognized that the Dunham Differential Vacuum Heating System achieves a goal of fuel-saving and temperature-comfort long sought in steam heating. We believe that this announcement marks an epoch-making advance over present types of steam heating systems, even the most modern. We shall be glad to send descriptive literature to those interested. A request on your business letterhead will bring it to you.

The Dunham Differential Vacuum Heating System is fully covered by patents and pending applications for patents in the United States, Canada and foreign countries. Any infringements will be vigorously prosecuted.

C. A. DUNHAM CO.
DUNHAM BUILDING
450 East Ohio Street ~ ~ ~ Chicago



SELF CLEANING CARTON FURNACE

Home of Edwin Jensen,
Minneapolis, Minnesota,
warmed by an International Carton.



In Your Client's Best Interests



THE RADIATOR

This is the Carton's SELF CLEANING RADIATOR in which soot or dust cannot accumulate, but must fall back on the fire.

Specifying the International Carton Self Cleaning Furnace, to be installed in accordance with the Standard Code, is surely working in your client's best interests—and in your own—

For the Carton will warm the home most efficiently—and for many years. There are Cartons still in active use which were installed sixty years ago.

ALWAYS FREE OF SOOT

Scientifically correct design and enduring construction are the reasons.

First, a radiator that is always free of soot means constantly maintained efficiency.

Then, a combustion dome or mixing

chamber that insures correct combustion.

And finally such details of sturdy, enduring construction as an ashpit and a feed chute without joints, preventing dust and gas leaks; a firepot that will not crack, cast in two sections with a deep cup joint, herringbone, triangular grates which mean a cleaner fire; and a double casing!

Architects, heating engineers, write for catalog 1818-F, describing the Carton in detail. We will also send a copy of the Standard Code.

International Heater Company
Utica, N. Y.

Cleveland Chicago Detroit
New York City Philadelphia
Nashua, N. H.

INTERNATIONAL

STEAM AND HOT WATER BOILERS, WARM AIR FURNACES AND ONEPIPE HEATERS



The Madison High School, Madison, N. J. Heating Contractors—Johnston Heating Co., New York City
Architects—Guilbert & Betelle, Newark, N. J.

Specialists in school construction select Ideal Boilers for model school

THIS new high school was planned by architects who have made a great success of schoolhouse construction.

The heating installation was made by heating contractors who have made a great reputation for themselves in heating and ventilating for school work.

Their selection of Ideal Boilers and American Radiators for this model school was a stamp of approval which should mean a great deal to architects in every part of the country.

Three 79" Ideal Water Tube Boilers have been installed with 7900 square feet of American Radiators.

The many interesting points of construction of the new Ideal Water Tube and Smokeless Boilers have been described and illustrated in attractive catalogues which every architect should have. Simply write for catalogues on Ideal Water Tube and Smokeless Boilers.



A battery of three 79" Ideal Water Tube Boilers is installed in the model schoolhouse at Madison, New Jersey.

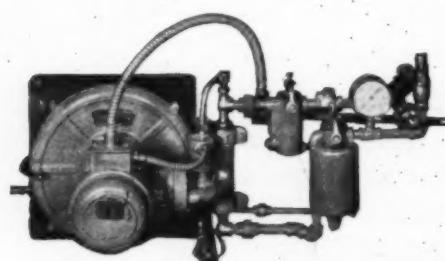
AMERICAN RADIATOR COMPANY

Showrooms and sales offices: New York, Boston, Providence, New Haven, Newark, Philadelphia, Baltimore, Washington, Richmond, Buffalo, Pittsburgh, Cleveland, Detroit, Cincinnati, Atlanta, Chicago, Milwaukee, Indianapolis, St. Louis, St. Paul, Minneapolis, Omaha, Kansas City, Denver, San Francisco, Los Angeles, Seattle, Toronto, London, Paris, Milan, Brussels, Berlin

Makers of IDEAL BOILERS and AMERICAN RADIATORS and other products for heating, ventilating and refrigerating



The colder the weather, the more Johnson Oil Burners are appreciated! The thermostat of the Johnson Automatic Burner is actuated by a change of one degree in room temperature! Delivery of fuel is simple; there is no worry concerning coal strikes and shortages. In bungalows and sky-scrapers, hotels, apartments, schools, factories and hospitals . . . all over the world, Johnson Oil Burners are providing comfort and security



THE Johnson Automatic Rotary Burner is approved by Underwriters' Laboratories and New York Board of Standards and Appeals.

**JOHNSON
OIL BURNERS[®]**

For 21 years . . . famous for simplicity, economy & ruggedness. There is a Johnson Burner for every heating & power purpose.

— write for illustrated BOOKLET

Main Office and Factory
940 950 Arlington Ave.
OAKLAND, CALIF.

**S. T. JOHNSON CO.
OIL BURNERS**

TRADE MARK REGISTERED

Factory Branch Offices
San Francisco
Sacramento
Philadelphia

— Distributors and Dealers throughout the United States and in Foreign Countries —



WIFCO BLACK



WIFCO CHOCOLATE



WIFCO BROWN

in 6 colors

Colored at the Mill
Ready for Immediate Use

*A zero weather mortar
stronger than any
known*

Now WIFCO, the super-mortar, is available in the six preferred colors that have heretofore had to be added to ordinary mortar right on the job.

Color is ground into WIFCO at the mill and is therefore an integral part of it. The ingredients of each sack of WIFCO Super-Mortar are identical with, and are mixed in the same proportions as, those of every other sack containing the same color. The colors will not fade. Neither will they stain masonry.

Thus at one stroke the hazards of deviating from the color sample are avoided—the waste in time, labor and materials is done away with—and the danger of weakening a wall by the dilution which often occurs through the use of colored mortar is entirely eliminated.

No longer will it be necessary to mix color with mortar on the job. WIFCO Super-Mortar comes with the color already in it, scientifically and exactly proportioned. WIFCO is made by formula. Each lot is tested to insure uniformity.

A colored super-mortar—stronger in every way—one that improves with the years—this is what WIFCO Super-Mortar is. It costs less than ordinary mortar and coloring materials. It costs less to mix. There is no waste—mortar left on the mortar board can be used the next day.

Both the compressive and the tensile strengths of WIFCO Super-Mortar are far above all requirements. There is no mortar made anywhere that proves as high as WIFCO.

WIFCO Super-Mortar is strong, like Superior Portland Cement, and is manufactured at the same plant. WIFCO is a plastic mortar. Bricklayers find it works better than any mortar they have ever used.

Write for the facts today. Immediate shipments can be taken care of within a radius of about five hundred miles from Cincinnati.

THE WELLSTON IRON FURNACE COMPANY
JACKSON, OHIO

Super - **WIFCO** - *Mortar*



Two "King Coal" automatic mechanical stokers under two 250 hp. Kroeschell Boilers at the Riverside Brookfield High School, Riverside, Illinois.

Public buildings should lead in smoke prevention

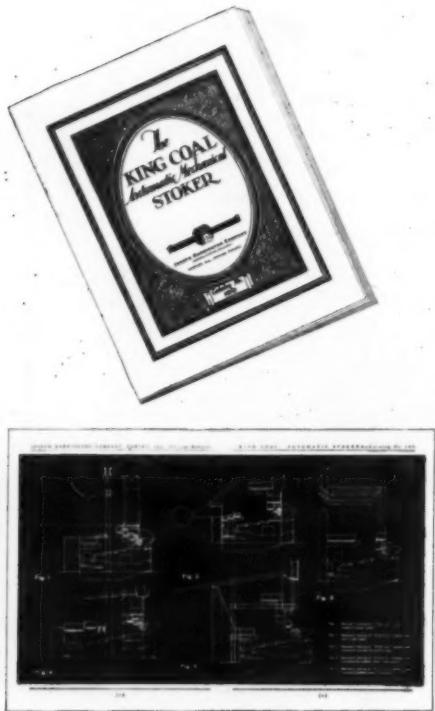
Schools and other public buildings ought to point the way for private owners in the matter of smokeless combustion, not only to be consistent with public smoke regulations, but also to secure the obvious fuel and labor economies which result.

But often the small size of boiler plants in these public buildings makes smokeless operation difficult. The new "King Coal" automatic mechanical stoker designed especially for boilers of 40 to 250 hp. meets this need exactly. It is the product of the twenty-five years' experience of Mr. Joseph Harrington with stokers and other coal burning equipment. It is daily demonstrating its simplicity and economy in dozens of plants.

May we send a list of users and full details for your file?

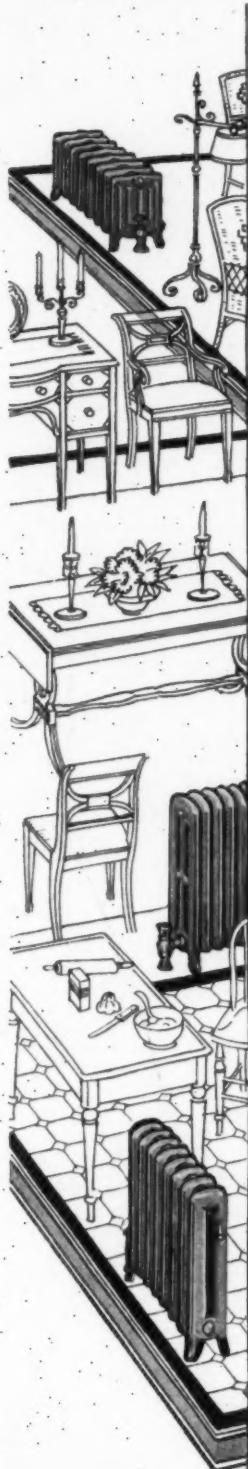
JOSEPH HARRINGTON COMPANY

(Subsidiary of Whiting Corporation)
HARVEY, ILLINOIS (Chicago Suburb)



Get this new stoker catalog. It contains information of value in designing every small boiler plant.

AF12-Gray



*Not only the boiler
but also heating-comfort
—GUARANTEED*

Most guarantees are only promises to replace defective parts. Good, as far as they go.

But Capitol *guaranteed heating* is a remarkable, new-type guarantee; a definite, non-quibbling guarantee of results. It guarantees not only parts, but performance. It is a complete and broad warrant of heating satisfaction and comfort—in writing. For if any Capitol boiler under stated conditions fails to heat satisfactorily its full published amount of cast iron radiation, the necessary additional capacity is supplied without charge.

Thus, you completely safeguard the heating comfort of your clients when you specify Capitol *guaranteed heating*. More, they will appreciate your thoughtfulness and care, because they have likely seen the consistent, national advertising campaign of big, full-color pages. May we send you the interesting facts and data for your files?

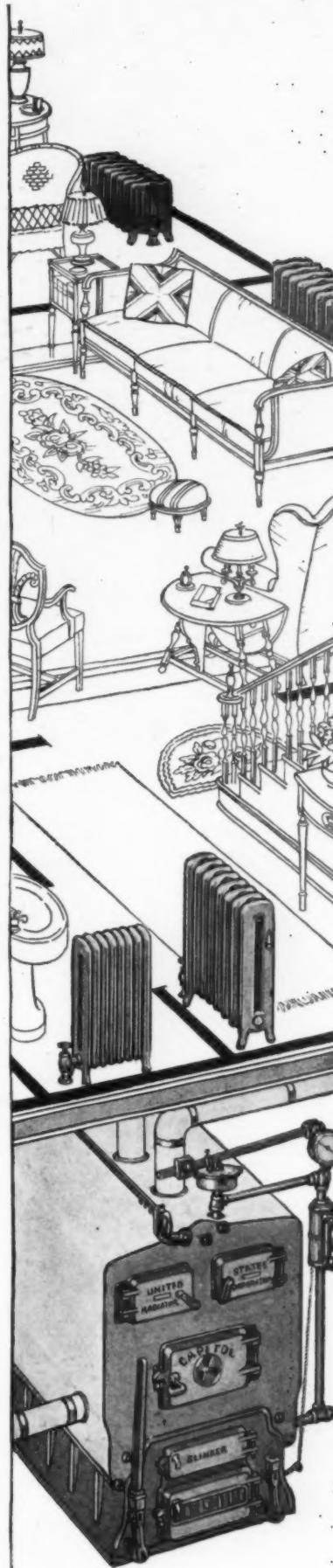
UNITED STATES RADIATOR CORPORATION

DETROIT, MICHIGAN

6 FACTORIES AND 28 ASSEMBLING PLANTS
SERVE THE COUNTRY

For 36 years, builders of dependable heating equipment

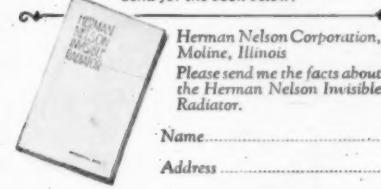
**Capitol
Boilers**
and
**UNITED STATES
RADIATORS**



Forever out of the way



How the Herman Nelson Invisible Radiator fits in the wall is shown by this phantom view. Send for the book below.



Herman Nelson Corporation,
Moline, Illinois
Please send me the facts about
the Herman Nelson Invisible
Radiator.

Name _____
Address _____

HERMAN NELSON *Invisible* RADIATOR



THE Herman Nelson Invisible Radiator eliminates exposed radiators, does away with makeshift radiator covers, ornamental boxes and screens, and makes every inch of floor and wall space usable.

It is only 1/8 the size and 1/10 the weight of a cast-iron radiator of equal capacity, and is specially designed to be installed in any 4" wall or partition. Constructed without a single soldered, welded or brazed joint, it

cannot rust or wear out, and even the most extreme expansion and contraction strains cannot make it leak.

The Herman Nelson Invisible Radiator is a thoroughly tested product. Its acceptance for all advanced building is inevitable. Full information about the Herman Nelson Invisible Radiator with its unlimited possibilities for added beauty and comfort in the home will be mailed you upon request.

THE HERMAN NELSON CORPORATION, Moline, Ill.
Also builders of Univent Ventilation

Sales and Service

BELFAST, ME.
BOSTON
NEW HAVEN

NEW YORK CITY
SYRACUSE
PHILADELPHIA
SCRANTON

PITTSBURGH
GRAND RAPIDS
DETROIT
CLEVELAND

COLUMBUS
TOLEDO
INDIANAPOLIS
CHICAGO

DES MOINES
MILWAUKEE
MINNEAPOLIS
ST. LOUIS

SAN FRANCISCO
EMPIORIA
OMAHA
KANSAS CITY

DENVER
SALT LAKE CITY
SPOKANE
PORTLAND

SEATTLE
VANCOUVER
TOKYO



Oil-O-Matic Heat Specified in *Country Life's* New Model House

A HOUSE so prominent in the public eye, and sponsored by such arbiters of good taste, must bear the closest scrutiny.

How futile to lay out spacious, lovely rooms that might be chilly in winter. To design great expanses of windows calling for draperies too fine to be soiled by the grime of coal dust.

How futile, indeed, to plan a house for a family accustomed to every modern convenience and then subject them to the uncertainties of old-fashioned methods of heating!

The editors of *Country Life* magazine appreciated this.

And in their desire to make their house perfect as regards architectural beauty, quality of construction, and selection of materials, they included in their specifications Williams Oil-O-Matic.

They knew that for seven years Oil-O-Matic has shown how perfect oil heat can be. That today it is the most widely enjoyed oil burner in the world.

The local oilomatician in your community will gladly assist you in figuring oil heat in your specifications. Write for a copy of **OIL HEATING**—and what it means to the architect. Williams Oil-O-Matic Heating Corp., Bloomington, Illinois.



Oil-O-Matic is adapted
to buildings of any
size and in any good
heating plant.

**WILLIAMS
OIL-O-MATIC
HEATING**

WORLD'S LARGEST PRODUCER OF AUTOMATIC OIL BURNERS

HOME IS WHERE THE HART IS



What Kind of Oil Does it Burn?

Be sure you know the answer to that question when you select an Oil Burner.

The Hart Oil Burner is especially designed to use efficiently the lower gravity fuels which contain more heat units, which are always plentiful and relatively low priced.

That's one reason why the Hart is preferred by so many architects and engineers.

Other good reasons are its simple sturdiness of design, its completely automatic action, its supreme dependability. All the owner needs to do is set the thermostat.

For your information, we offer without cost a crisp booklet giving brief mechanical specifications and other basic facts of the Hart Oil Burner. Write for it today.

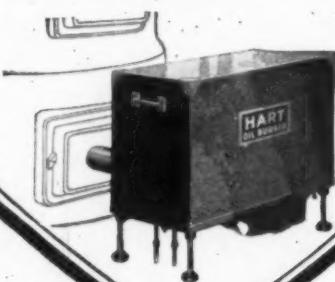
HART OIL BURNER

Manufactured by

W. B. WILDE COMPANY

For 36 years makers of precision machinery

2158 North Adams Street, Peoria, Illinois



Listed as standard by
Underwriters' Laboratories, Inc.

The Hart Dealer in your city
will be glad to give full information
without placing you under
the least obligation

HART OIL BURNER

W. B. WILDE CO.

2158 North Adams Street, Peoria, Illinois

You may send me, without cost or obligation:

Latest booklet on Oil Heating.

Booklet on the Hart Electric Icer.

Name.....

Street.....

City..... State.....

*These photographs
were taken exactly
3 minutes apart!*

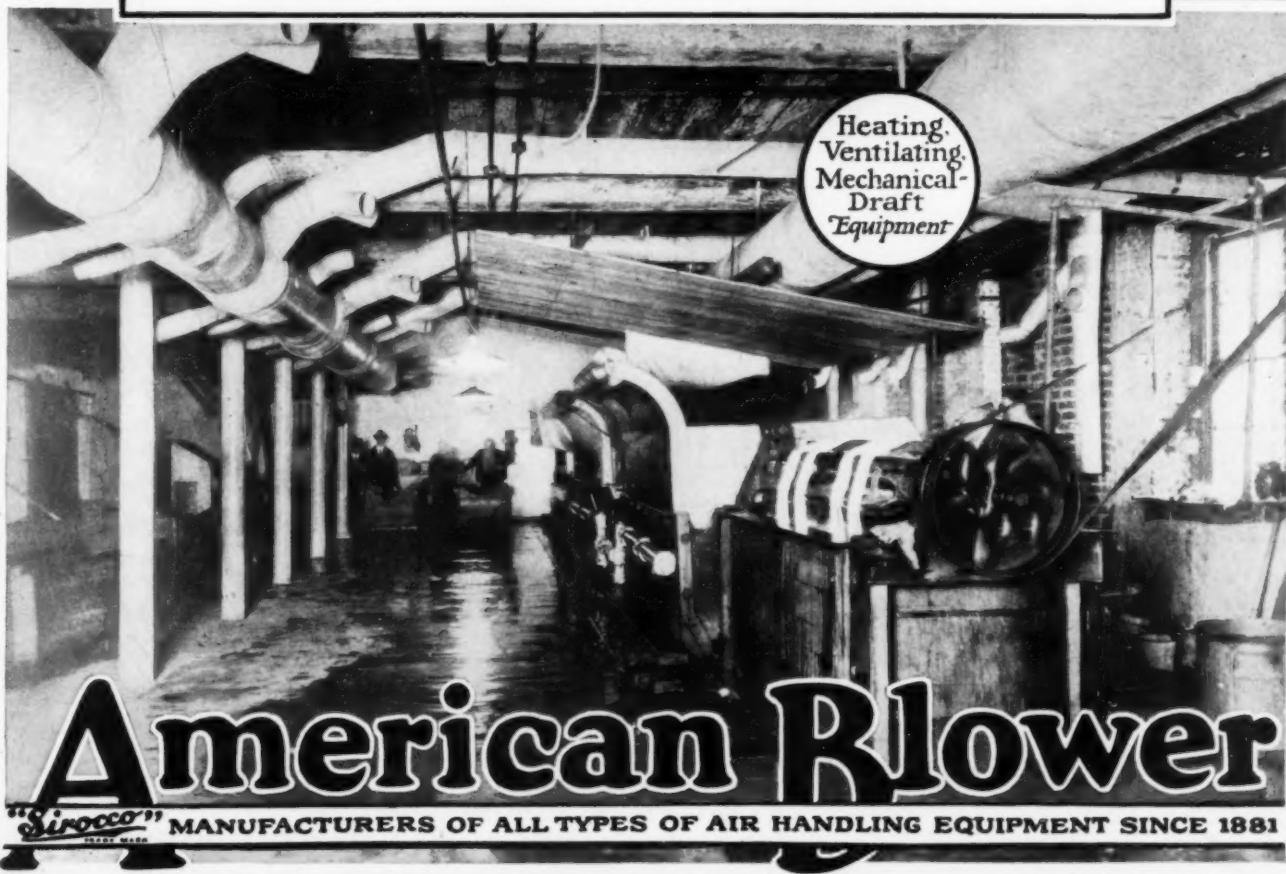
AMERICAN BLOWER COMPANY
Detroit, U.S.A.

Above—Dye house with American Blower Ventilation turned off.

Below—Same room exactly 3 minutes after starting American Blower Ventilating Equipment. Your ventilation can be cared for as easily, quickly, and efficiently as this with American Blower Equipment. Write for complete information.

(574)

Heating,
Ventilating,
Mechanical
Draft
Equipment



Spencer

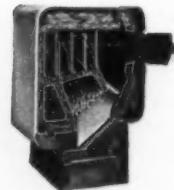
steam, vapor or hot water

Heaters

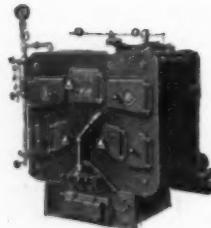
A size and type for every heating purpose and every kind of building



Spencer Junior Hot Water Heater—capacity in direct cast iron radiation equivalent, water, 300 to 600 square feet.



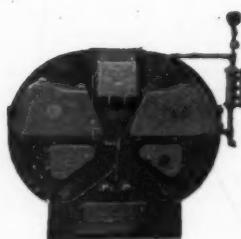
Spencer No. 1 Single Grate Heater, capacity in direct cast iron radiation equivalent, water, 800 to 1450 square feet; steam or vapor, 500 to 900 square feet.



Spencer No. 2 Double Grate Heater, capacity in direct cast iron radiation equivalent, water, 1750 to 3800 square feet; steam, 1100 to 2350 square feet.



Spencer Tubular Steam Heater—15 to 21 Series—capacity in direct cast iron radiation equivalent—1900 to 3600 square feet.



Spencer Tubular Steam Heater—50 Series—capacity in direct cast iron radiation equivalent 4500 to 7000 square feet.



Left—Spencer Tubular Steam Heater—100 Series—capacity in direct cast iron radiation equivalent 7500 to 15000 square feet.

Right—Interior view showing construction principle.



All Spencer Heaters may be hooked up in battery where a flexible supply of heat is needed, or where the total radiation tax is greater than the capacity of a single boiler.

Reinforced Concrete Saved 20%

**A Saving of \$60,134.00
Was Made On This Omaha Job!**



**The Reinforcing Steel
for This
Entire Job
Was Delivered from
Our Warehouse Stock
As Required**

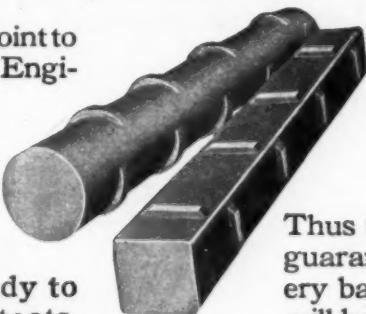
THE original plans for the Metropolitan Utilities Service Building at Omaha called for a structural steel building at a cost of \$288,500.00. A redesign of the structural frame resulted in the expenditure of \$228,366.00, making a saving of \$60,134.00.



Make it a point to call upon our Engineering Department. Each member is technically trained and always ready to assist Architects, Engineers and Contractors with layouts and estimates for the reinforced concrete portion of building work.

This is one of the everyday examples of the economy of reinforced concrete construction for fireproof buildings. It is also another example where **Ceco** warehousing and fabrication facilities have again proved their efficiency.

Large stocks of **Ceco** Reinforcing Bars and other Reinforcing and Fireproofing ma-



terials are regularly carried at our warehouses.

Ceco Reinforcing Bars are furnished in deformed rounds and squares. The deformations are at right angles to the main axis of the bar (see illustration) and this provides the most positive kind of mechanical bond to aid the adhesion of the concrete to the steel in resisting bond stresses existing in reinforced concrete members.

All **Ceco** Reinforcing Bars are inspected and tested by Robt. W. Hunt & Co., Engineers, to conform to the specifications of the American Society of Testing Materials.

Thus the customer receives a guarantee of quality with every bar shipped. Test reports will be furnished upon request.

Send for our Handbook of Fireproof Construction. It contains many valuable tables, et cetera. Address our Omaha Office, Dept. 35.

CONCRETE ENGINEERING CO.

Offices and Warehouses:

OMAHA
DETROIT
HOUSTON

KANSAS CITY
DES MOINES
MINNEAPOLIS
MILWAUKEE

CHICAGO
ST. LOUIS
DALLAS

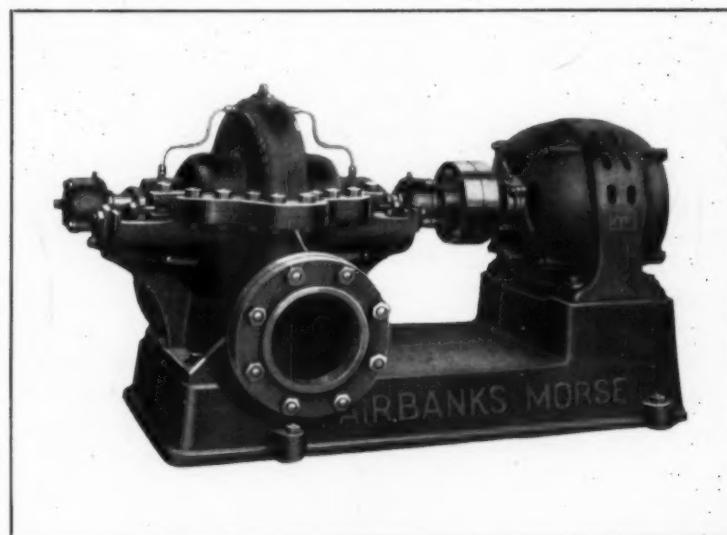
Ceco
PRODUCTS
—See SWEET'S



Fairbanks-Morse centrifugal pumps were selected for booster service in the Hamilton County Court House, Cincinnati, Ohio. At the left, the F-M installation in this large public building.



A typical motor-pump combination, ball-bearing throughout of high efficiency and exceptionally fine balance, *unit-built* by Fairbanks-Morse.



24-hour-a-day *pumping service*

F-M unit-built equipment has proved equal to this responsibility

Among the many Fairbanks-Morse pumping units built for meeting the responsibility of 24-hour-a-day service, F-M centrifugal pump-and-motor combinations offer numerous advantages.

Both the pump and the motor are designed and built together, perfectly balanced, with complete responsibility for satisfactory, uninterrupted operation in the hands of one manufacturer. This is a distinctive F-M advantage that appeals to experienced pump users and is an important factor in selection.

Moreover, these units incorporate the famous F-M ball-bearing construction in both motor and pump. Shafts are carried on permanently true centers with all journal wear eliminated. Dependability is insured because the usual sources of friction and wear have been designed out. Attendance is reduced to a minimum.

In qualities of precise, durable, full-measure construction, these pump-motor units are representative of the entire F-M line, which embraces centrifugal, steam and power pumps for building service.

Write for Bulletin H301—a treatise on the factors governing the selection of pumps for buildings.

FAIRBANKS, MORSE & CO., Chicago
28 branches in principal cities throughout the United States

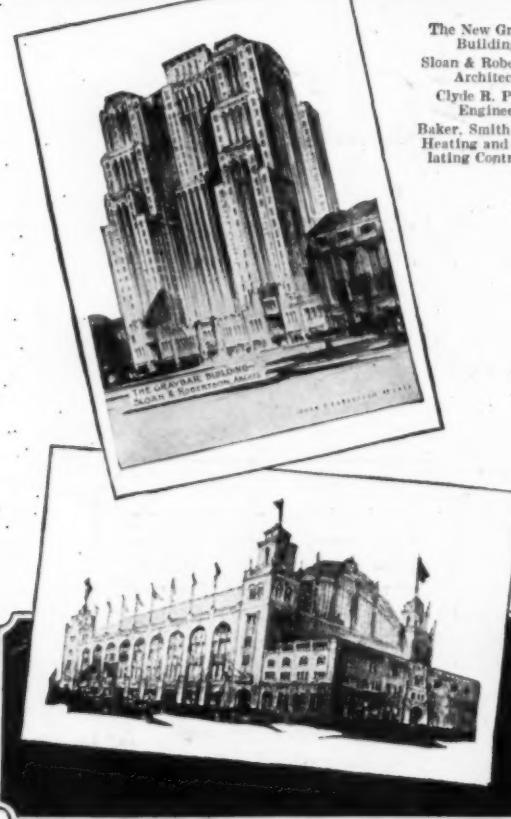
Fairbanks-Morse pumping equipment provides dependable and efficient operation for the following kinds of pumping service:

General water service
Hot-water supply
Ice-water supply
Boiler-feed service
Heating and condensation
Air washing
Fire protection
Hydraulic elevators
Refrigeration
Sump pumping

Fairbanks-Morse engineers will gladly give information on capacities, pressures, speeds, performance, etc., of the different types and sizes of pumps, and make recommendations based on your needs.

FAIRBANKS-MORSE PUMPS · MOTORS · DIESEL ENGINES

When You Specify **MIDWEST** You're Certain



The New Graybar Building
Sloan & Robertson,
Architects
Clyde R. Place,
Engineer
Baker, Smith & Co.,
Heating and Ventilating Contractors

Midwest Is the Leading Air Filter In New York

Most buildings in New York that have air filters are equipped with Midwest installations, and practically every mechanically ventilated building now being constructed in the city will be supplied with clean air through Midwest Air Filters. The Midwest-equipped buildings shown to the left are only two of those now in the course of construction, or recently completed, in New York. Among the others are:

Drake Hotel,
R. Candela, Architect.
Keith's 86th Street Theatre,
Thos. W. Lamb, Architect.
New York University,
W. S. Gregory, Architect.
Royal Insurance Building,
Starrett & Van Vleck, Architects.
Columbia-Presbyterian Medical Center,
Jas. Gamble Rogers, Architect.

The New Madison Square
Garden
Thos. W. Lamb, Architect
E. G. Woolfolk,
Engineering Contractor

The Manger Hotel,
H. Craig Severance, Architect.
The New Delmonico Building,
H. Craig Severance, Architect.
Elks' Lodge No. 22, Brooklyn,
McKim, Mead & White, Architects.
Schrafft's Fifth Avenue Building,
C. E. Birge, Architect.
F. W. French Building,

Ask Dept. A F for Certified Performance
Reports of Midwest Installations



NO LOSS TO ANY INVESTOR IN 53 YEARS

FOR MEN WHO PLAN NEW BUILDINGS

THE F. H. Smith Company, which has given 53 years of satisfactory service to first mortgage borrowers and investors, and which specializes in underwriting first mortgage construction bond issues, offers to men who plan new buildings the means to complete them.

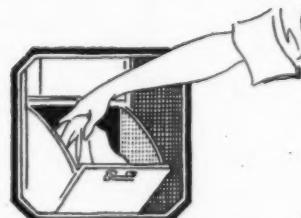
The Smith Plan assures prompt disbursements on architects' certificates as construction progresses. It provides both construction and permanent financing at one time, and thus there is no uncertainty about the renewal of short-term loans.

If you are planning the erection of an income-producing building that requires first mortgage financing of \$200,000 to \$1,000,000 or more, we shall be glad to have you communicate with us.

The F. H. SMITH Co.

SMITH BUILDING, WASHINGTON, D. C.

NEW YORK PHILADELPHIA PITTSBURGH BOSTON BUFFALO ALBANY MINNEAPOLIS



The Quickest, Most Sanitary and
Most Economical Waste Disposal
System to Be Had

Specify a GODER Incinerator

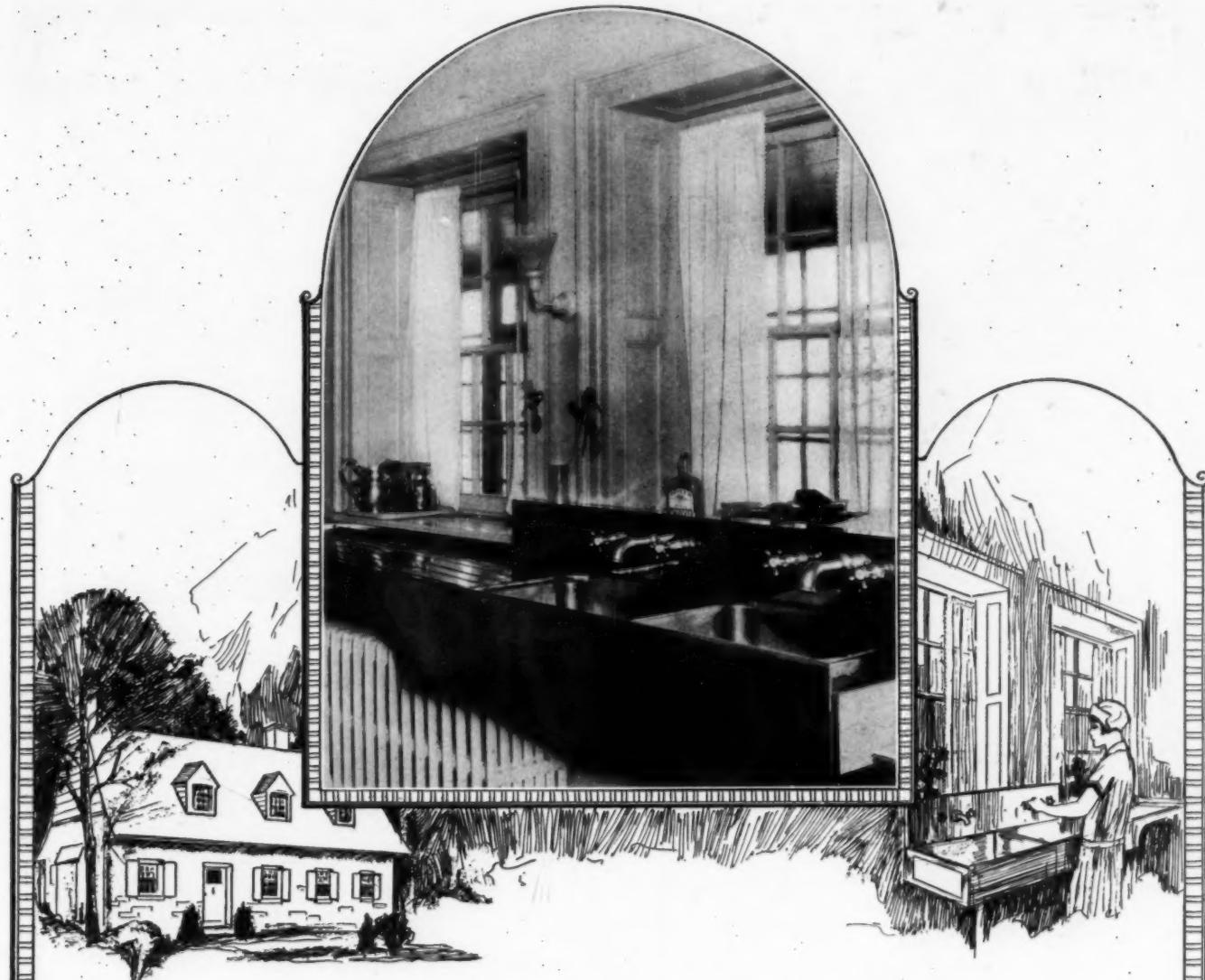
There's a GODER Incinerator for every size and type of building. Simple, efficient and economical. Can be installed in either OLD or NEW buildings. The patented, exclusive Step Grate Design insures highest possible incineration efficiency and lowest operating cost.

Our Folder Fits Your File 35-J-41
Sent FREE to Architects

GODER INCINERATOR CORP.

319 North Michigan Avenue
CHICAGO





Insuring Permanent Attractiveness in the finest of modern homes

HERE is proof that sinks can be beautiful. In years gone by, the average sink was unpleasant to look at because of the materials of which it was made. But now-a-days, because it can be made of Monel Metal, a sink may become a thing of silvery beauty —actually, an ornament to any kitchen.

Here is pictured a typical Monel Metal sink. It not only looks clean and

attractive now—it will retain that cleanly attractiveness.

For Monel Metal always looks new and bright. It is easily cleaned, durable and strong, rust-proof and corrosion-resisting.

The kitchen is only one place where Monel Metal may be used to advantage. Let us give you complete information about Monel Metal so that your data files may be complete.

SEND FOR "LIST B" OF MONEL METAL AND NICKEL LITERATURE

Monel Metal is a technically controlled Nickel-Copper alloy of high nickel content. It is mined, smelted, refined, rolled and marketed solely by The International Nickel Company. The name "Monel Metal" is a registered trade mark.



Monel metal



THE INTERNATIONAL NICKEL COMPANY, 67 WALL STREET, NEW YORK CITY



Venetian Swimming Pool, Coral Gables, Fla.

Swimming Pool Chlorination Is The Most Satisfactory Method Of Disinfection



W&T Chlorinator Type
MSP, Particularly Applicable
for Swimming Pool
Sterilization

“FROM all available information the addition of chlorine by the use of proper apparatus, is today the most satisfactory method of pool disinfection”—so states the report of the Joint Committee of State Sanitary Engineers and American Public Health Association after five years careful study.—And the report goes on to tell why—because of the residual sterilizing action of chlorine.

Higher endorsement could not be had.

We will be glad to send a copy of this report on request.

Liquid chlorine and W&T apparatus sterilizes over five billion gallons of drinking water every day.

“SWIM IN DRINKING WATER”

“The only safe water is a sterilized water”



WALLACE & TIERNAN

COMPANY, INCORPORATED

Manufacturers of Chlorine Control Apparatus

NEWARK - NEW JERSEY



NEW YORK CHICAGO KNOXVILLE SAN FRANCISCO MINNEAPOLIS PITTSBURGH DALLAS KANSAS CITY
LOS ANGELES SEATTLE ST. LOUIS BUFFALO HARRISBURGH INDIANAPOLIS DETROIT
WALLACE & TIERNAN, LTD., TORONTO, CANADA WALLACE & TIERNAN, LTD., LONDON, ENGLAND

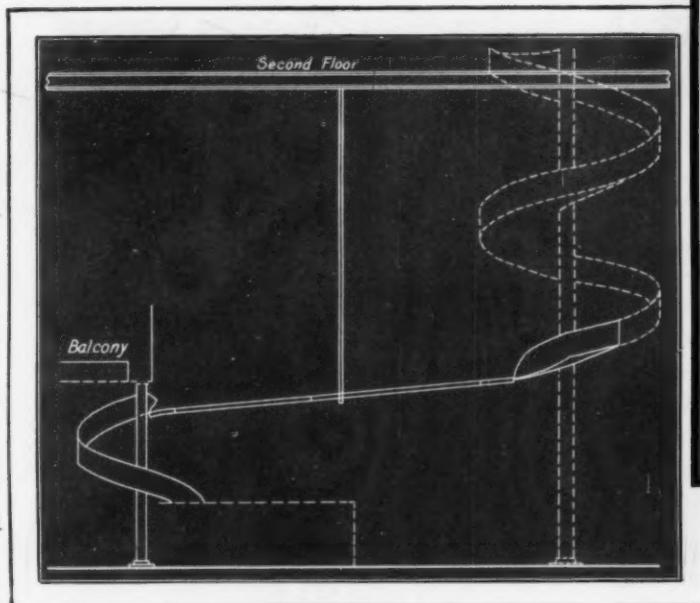
Standard Conveyors Help to Sell Machinery, Tools and Shop Supplies

It will be admitted that prompt service to customers does make and hold them.

A little better discount from list, a neater package, and various other details serve to impress the customer with the high standard of the firm he buys from.

Here is shown a Standard Spiral Chute working for C. A. Strelinger, Detroit, Michigan, dealers in machinery, tools and shop supplies. There is no power used, save gravity, to operate it. Strelingers, therefore, can divide this saving with their customers. No elevator operator is needed to bring merchandise down to the shipping or delivery department. Strelingers can divide this saving with their customers.

Standard Spirals do help sell machinery, tools, and shop supplies. They also help sell hardware, automobiles, wholesale groceries, newspapers, coal, and a myriad of other things that are in bundles, packages, boxes or loose. What about your client? Gravity is the cheapest power known! Why not see if he has a place for it? An analysis of the Strelinger job will be sent on request to any architect who is interested.



There is no delay in filling an order. Repair parts, tools, or supplies that are located somewhere above come promptly and directly to the exact spot when and where wanted. Strelingers can offer this service to their customers.

The man on floor three who fills orders, keeps stock and has charge of Dept. A or D receives an order, fills it—puts it on the spiral and forgets it. At the other end of the spiral it is taken off and despatched by mail, express, truck, or freight without loss of time. Neither the man at the top of the spiral nor the one at the bottom has lost a bit of time by waiting, walking unnecessarily, or passing the time of day with the elevator man. This bit of prompt attention Strelingers can offer their customers.



Standard Gravity Roller Conveying Systems are especially adapted to solving conveying conditions in machine shops and plants. We would like to tell you about some of the conveying problems solved with Standard Roller Conveying Systems.

STANDARD

CONVEYOR COMPANY,
NORTH SAINT PAUL, MINN.

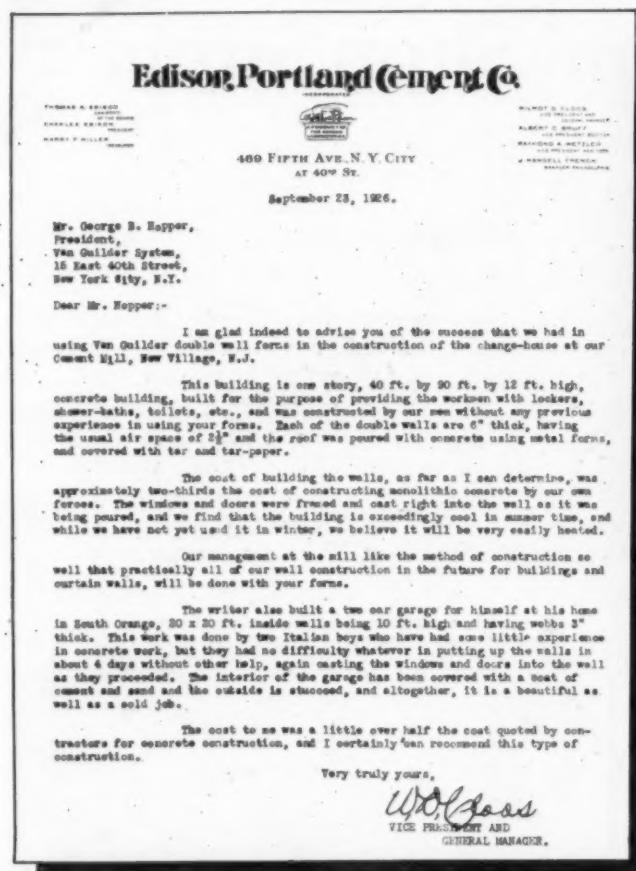


New York Office, 405 Lexington Avenue
Chicago Office, 549 West Washington Street
Philadelphia Office, 3110 Market Street
Cleveland Office, 1108 Hippodrome Building
Indianapolis Office, 404 Lombard Building

Kansas City Office, 419 Manufacturers' Exch. Bldg.
Milwaukee Office, 209 Grand Avenue
Los Angeles Office, 335 South San Pedro Street
Seattle Office, 1105 Second Avenue
Charlotte Office, P. O. Box No. 131

Cable Address: Gravity

“From Edison’s Plant”



Read This Expert’s Opinion On Wallbuilder Construction

Double, monolithic, concrete walls are answering the architect’s demand for integral insulation. They are providing the most practical insulating medium known—a $2\frac{1}{2}$ " continuous air space—at a cost no greater than that of ordinary masonry construction. Furring, lathing and scratch coat plaster are eliminated, so thoroughly damp-proof are these walls.

Van Guilder System Concrete Building 17 East 40th Street



The Van Guilder Wallbuilder shown in place on walls is filled with semi-wet concrete and tamped. Lever indicated by arrow is then lifted, which collapses the center core and expands the outside plates, thereby freeing the concrete on all sides. The wallbuilder is then instantly slid forward.

See Our Page in
the Fall Edition of
Sweet’s Catalogue

Capital Cleaning for a State Capitol

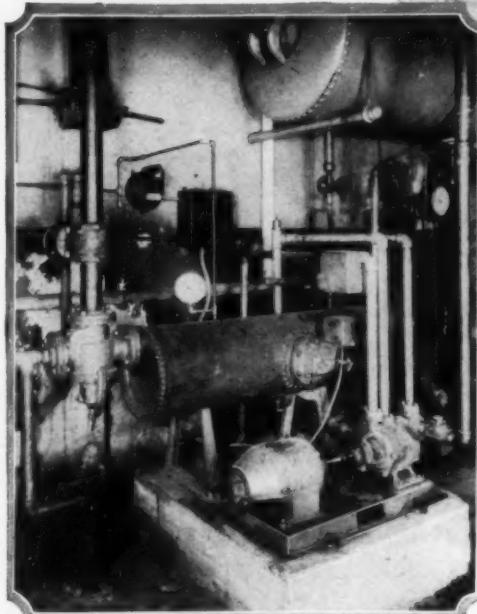


STATE CAPITOL OF NEBRASKA
Architects: Bertram Grosvenor Goodhue Associates

Since the capitol of a great state is built but once, it is absolutely necessary that it embody every detail of the latest and most advanced equipment. Because of this, the architect of the Nebraska State Capitol specified The Spencer Central Cleaning System, already installed and in successful operation in public buildings of every sort—in Independence Hall; the State Capitols of Connecticut, Utah, Missouri, Texas, Oklahoma and others; Hospitals, Libraries, Municipal Buildings, Hotels, Theatres, Churches, Large Residences, Schools, Office Buildings, Department Stores;—in structures of every possible type where it is necessary that absolute cleanliness be maintained by use of apparatus which is strong, reliable, noiseless and economical, qualities among others belonging to The Spencer Central Cleaning System.

The
Spencer Turbine Company
Hartford, Conn.

SPENCER
CENTRAL
CLEANING
SYSTEMS



Above: The well-known Stroh Building in Detroit. At left: View of the motor-driven Jennings Pump and Returns Tank on the return line of the heating system.

Jennings in Stroh Building, Detroit

In the Stroh Building, Detroit, as in most other fine office buildings in the country, a Jennings Vacuum Heating Pump is depended on for removing the condensation and air from the return line heating system.

For the exacting service customarily encountered in buildings of this character, Jennings Pumps are a logical choice. They give to the

heating system a flexibility which makes it capable of delivering the heat where and when it is wanted. Jennings-equipped systems start up quickly in the morning. They can supply heat to the farthest radiator as easily as to the one nearest the boiler.

Bulletins, prices and recommendations on request.

NASH ENGINEERING COMPANY
SO. NORWALK CONNECTICUT



Branch Sales Offices: Atlanta, Birmingham, Boston, Buffalo, Chattanooga, Chicago, Cleveland, Dallas, Denver, Detroit, Indianapolis, Kansas City, Memphis, Miami, Minneapolis, New Orleans, New York, Omaha, Philadelphia, Pittsburgh, Portland, Richmond, St. Louis, Salt Lake City, San Francisco, Seattle, Tampa, Washington. **In Canada:** Montreal, Toronto and Vancouver. **European Offices:** London, England, Norman Engineering Co.; Brussels, Belgium and Amsterdam, Holland. Louis Reijners & Co.; Oslo, Norway, and Stockholm, Sweden, Lorentzen & Wettre.

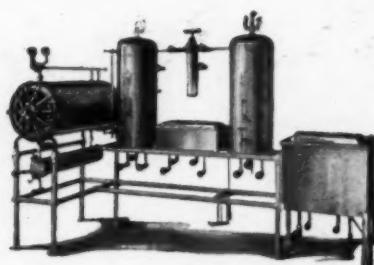
Jennings Pumps

RETURN LINE AND AIR LINE VACUUM PUMPS

CONDENSATION AND CIRCULATING

PUMPS

Visualize a STERILIZING Room Free From Hissing Steam



More than 100 Hospitals have been equipped completely with SUPER-KNY PRESSURE STERILIZING APPARATUS and RECESSED CABINETS during the past year.
THERE IS A REASON.

More than thirty-five years of satisfactory service has earned for our apparatus a reputation for unexcelled supremacy.

The Super-Kny Automatic Controls for the Electric Current, High Pressure Steam lines and gas, make possible the Sterilizing Room free from hissing steam and vapor.

Our EJECTORS eliminate the necessity for a vapor vent to roof.

Catalogues and Roughing-in cheerfully furnished gratis. A. I. A. No. 35-K.



The KNY-SCHEERER Corp.

OF AMERICA

America's largest Manufacturer of Hospital Equipment

119-125 Seventh Avenue (Dept. 30)

New York, N. Y.



Wilson Hygienic Wardrobes, with disappearing doors, in St. Paul's School, Providence, R. I. A. J. Murphy, Arch. Note ventilating grilles in doors.

The same type wardrobe with rolling fronts. Note that they are always under the teacher's eye. These particular wardrobes are built in convenient recess in wall.

These savers of space will appeal to your sound judgment

MANY newly built schools have entirely omitted separate cloakrooms and depend solely on Wilson Hygienic Wardrobes. Others have abandoned the out of sight, poorly ventilated cloak rooms and now use the Hygienic Wardrobe because of the space saved.

One that is perfectly ventilated and sanitary and that can be enlarged when necessary. If one of you would like to talk wardrobes one of us would like to talk with you. Or we will send you catalog No. 3.

1876—FIFTY YEARS IN BUSINESS—1926

The J. G. WILSON Corporation
11 East 38th Street, New York City
Offices in all Principal Cities



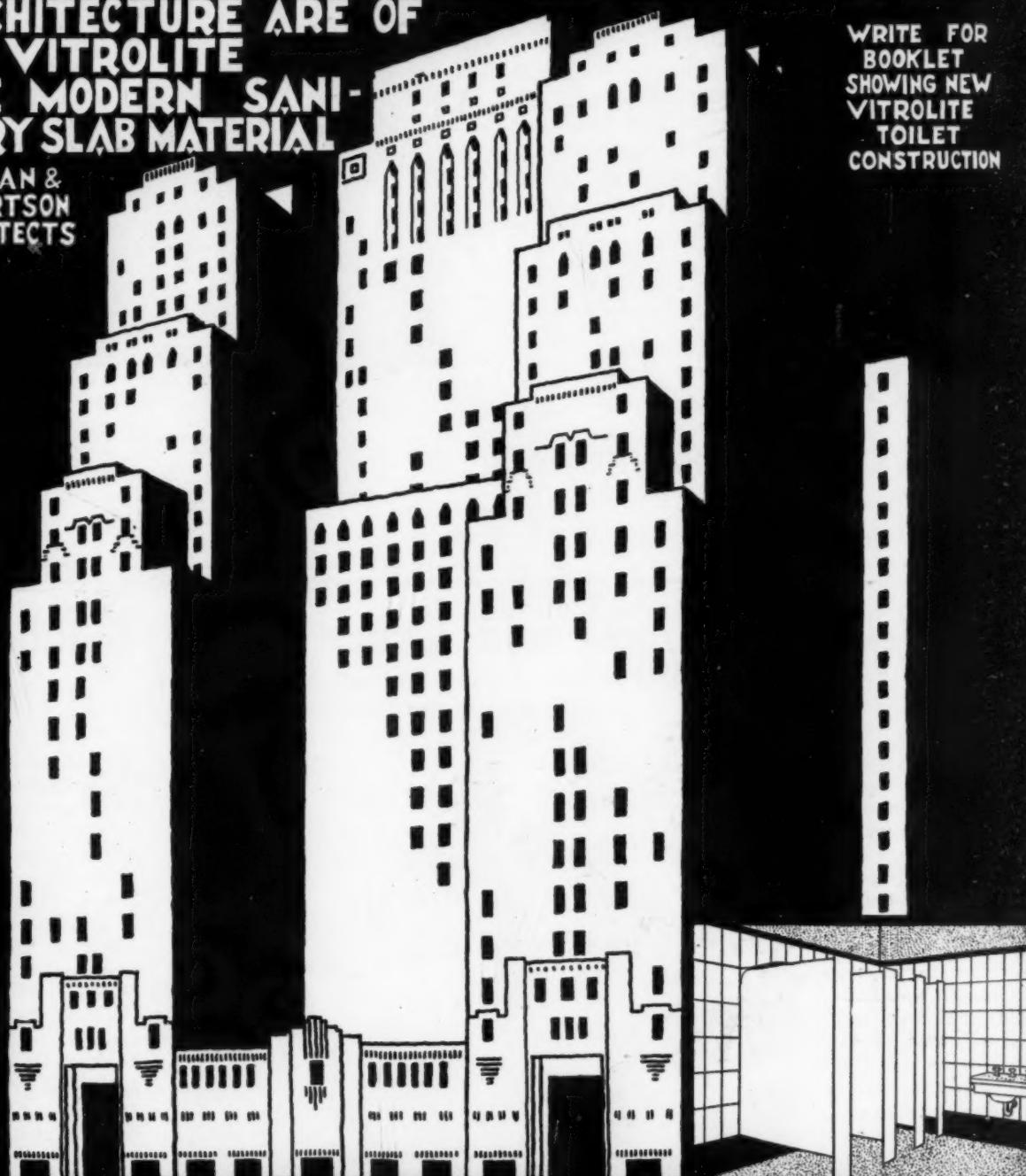
VITROLITE

IN THE WORLD'S LARGEST OFFICE BUILDING
 STALLS AND WAINSCOTING IN ALL WASHROOMS OF THE
 GRAYBAR BUILDING A MASTERPIECE IN MODERN
 ARCHITECTURE ARE OF

VITROLITE
 THE MODERN SAN-
 TARY SLAB MATERIAL

SLOAN &
 ROBERTSON
 ARCHITECTS

PETER
 WRITE FOR
 BOOKLET
 SHOWING NEW
 VITROLITE
 TOILET
 CONSTRUCTION



133 W. WASHINGTON ST.
 CHICAGO

THE VITROLITE COMPANY
 SALES REPRESENTATIVES

FACTORY
 PARKERSBURG, W. VA.

ATLANTA
 BALTIMORE
 BOSTON
 BROOKLYN
 BUFFALO
 CINCINNATI

CLEVELAND
 COLUMBUS
 DALLAS
 DENVER
 DETROIT
 KANSAS CITY

LOS ANGELES
 MIAMI
 MINNEAPOLIS
 NEW ORLEANS
 NEW YORK
 KANSAS CITY

PHILADELPHIA
 PITTSBURGH
 PORTLAND
 PROVIDENCE
 SAN FRANCISCO
 SEATTLE

SPRINGFIELD, MASS.
 HONOLULU
 ST. LOUIS
 TAMPA
 WASHINGTON
 COPENHAGEN
 HAVANA

MONTRÉAL
 JOHANNESBURG
 OSAKA
 LONDON
 MANILA
 MELBOURNE
 TORONTO
 MEXICO CITY

SAN JUAN
 SHANGHAI

Like a bit of Normandy
is DUBOIS ~ ~ so quaint,
so picturesque

THE architect of this lovely home on the New Jersey coast has carried out the thought and feeling of the original Norman type clear through to service wing and garage. To have used an ordinary fence for screening purposes would have introduced an incongruous note. So he chose Dubois, the charming and very practical fence that has been used for centuries in France, and got privacy and authenticity.

Dubois is made of straight, live, chestnut saplings, woven closely together. Comes in two heights, 4ft. 11in. and 6ft. 6in. Easy to erect.

DUBOIS Woven Wood Fence

Imported from France solely by

ROBERT C. REEVES CO., 187 Water Street, New York



Robert C. Reeves Company, 187 Water Street, New York
Please send your free portfolio showing practical applications of Dubois and illustrating how it fits in with any architectural type.

Firm _____

Name _____

Address _____

City _____ State _____ AF-12

Cottages, Farmhouses and Other Minor Buildings

In England of the 16th, 17th and 18th Centuries

By LOUIS CONRAD ROSENBERG

OF ALL the architectural types, that most appropriate for American domestic use is often thought to be that of the old English cottage or farmhouse. It can be easily developed in materials of almost every kind; it possesses wide flexibility as to scale, and the character of its fenestration provides the ample wall spaces which many designers highly value for their architectural effect. Its interior is readily developed to provide the rambling type of plan which is popular for country or suburban domestic buildings, and all in all, the English farmhouse or cottage answers every demand made by the modern home builder in the search for a practical type.



THIS important work presents half-tone illustrations from photographs or sketches of more than 100 English country houses of the cottage or farmhouse types, chiefly in the Cotswolds and in Sussex, Suffolk and Kent. It deals with the work of three centuries and illustrates buildings of several widely different kinds of old English domestic architecture, built of wood, plaster, stone, brick, or combinations of all these.

There are also given countless detailed working drawings of doorways; oriel windows; gables; chimneys, singly or grouped in stacks; decorated plaster; half-timber work; fireplaces and cornices. A book invaluable to the architect.

102 pages, 10 x 13 1/2 inches.

Bound in cloth. Price \$15.

ROGERS & MANSON COMPANY

383 Madison Avenue, New York



The Garbage Problem is settled forever in ALDEN Park Manors

THE Alden Park Manors of Brookline, Mass., and Philadelphia, Pa., are noteworthy contributions to American apartment house architecture. Every detail of interior finish and equipment is in keeping with the best modern practice.

The garbage nuisance was banished once and for all—and a big step taken thereby in assuring tenant satisfaction. The sanitary, convenient Kernerator was installed to displace foul smelling, inconvenient garbage cans.

No operating expense

All waste is dropped into handy hopper doors on floors above and falls to the brick combustion chamber in the basement. An occasional lighting (a match does it) ignites the air-dried accumulation. No gas, coal or other fuel is necessary.

All new homes and apartment buildings deserve this modern time-tried convenience. Your clients will welcome the suggestion.

For detailed information see Sweet's Twenty-First Edition, Pages C3054-C3055. Or phone your local Kernerator representative. Offices in sixty cities.

KERNER INCINERATOR COMPANY
715 EAST WATER ST. MILWAUKEE, WIS.

KERNERATOR
THE CHIMNEY-FED INCINERATOR

*Garbage and Waste Disposal
without Leaving the Kitchen*

Kenneth M. de Vos & Company
Wissahickon Avenue & School House Lane
Philadelphia, Pa.
Designers and Builders
Alden Park Manors

Dec.
23rd
1925

Kerner Incinerator Co.,
641 E. Water Street,
Milwaukee, Wisconsin.

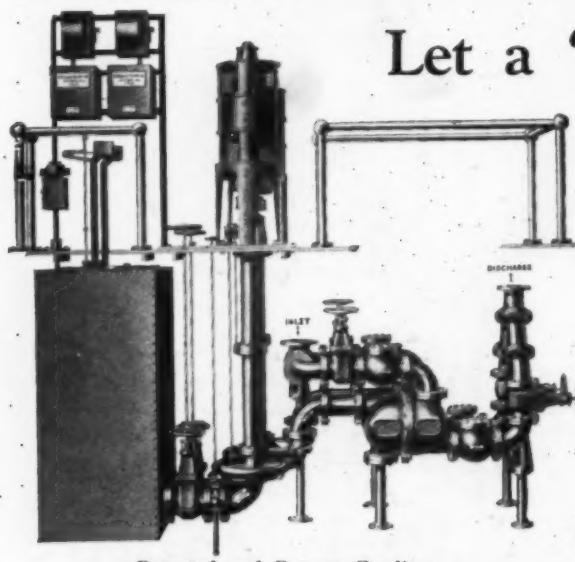
Gentlemen:

You will be interested to know that for the incinerator equipment for the disposal of all garbage and waste on our Alden Park Manor, (consisting of approximately 250 housekeeping apartments) at Brookline, Mass., we used your Kernerator.

The operation of your equipment on our above buildings has proven so satisfactory and sanitary that we have adopted its use on our Alden Park Manor Building operation, which is nearing completion here in Germantown, Philadelphia, (which consists of approximately 300 housekeeping apartments).

In addition to the actual satisfaction from your equipment in operation, we likewise have appreciated the type of co-operation your organization has given us, both in personal service, and the placing of your equipment on the job when required.

Yours very truly,
KENNETH M. de VOS & CO.
By *Kenneth M. de Vos*



Patented and Patents Pending

Let a "Chicago Flush-Kleen" Do That Disagreeable Task

The distasteful task of cleaning a strainer basket on a Sewage Ejector is no longer necessary.

Illustration shows the Chicago "Flush-Kleen" Dry Basin Sewage Ejector unit. The "Flush-Kleen" entirely eliminates the old-fashioned strainer basket.

Let our Bulletin No. 126 tell you more about this splendid new unit based upon the "Flow-Reversal" method.

"Flush-Kleen" Dry Basin Sewage Ejectors are now giving satisfaction in the Saenger Theatre, New Orleans; The Rome School, Rome, New York; and the Merchants and Manufacturers Building, New York City. Simplicity in construction of the "Flush-Kleen" strainer has been proven in the above installations where not a moment's trouble has been experienced.

Ask for Bulletin 126—Gladly furnished upon request

CHICAGO PUMP COMPANY

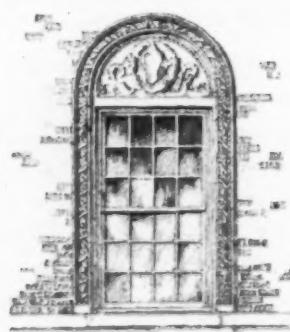


SEWAGE-CONDENSATION-CIRCULATING
BILGE-FIRE-HOUSE-VACUUM

OFFICE AND WORKS: 2316 WOLFRAM STREET

:: ::

CHICAGO, ILLINOIS



Italian Origin, with the convenience of double-hung sash

Windows must be useful. The utility of double-hung sash depends upon the quality of the sash cord.

Architects are meeting this requirement by specifying

SAMSON SPOT SASH CORD



Trade-Mark Reg. U. S. Pat. Off.

SAMSON CORDAGE WORKS
88 BROAD STREET BOSTON, MASS.



Holeproof Hosiery Bldg., Milwaukee, Wisconsin
Federal Engineering Co., Architects
Dahman Construction Co., Contractors

The Saving Is HERE



Put the BULL-DOG on your Pay-roll

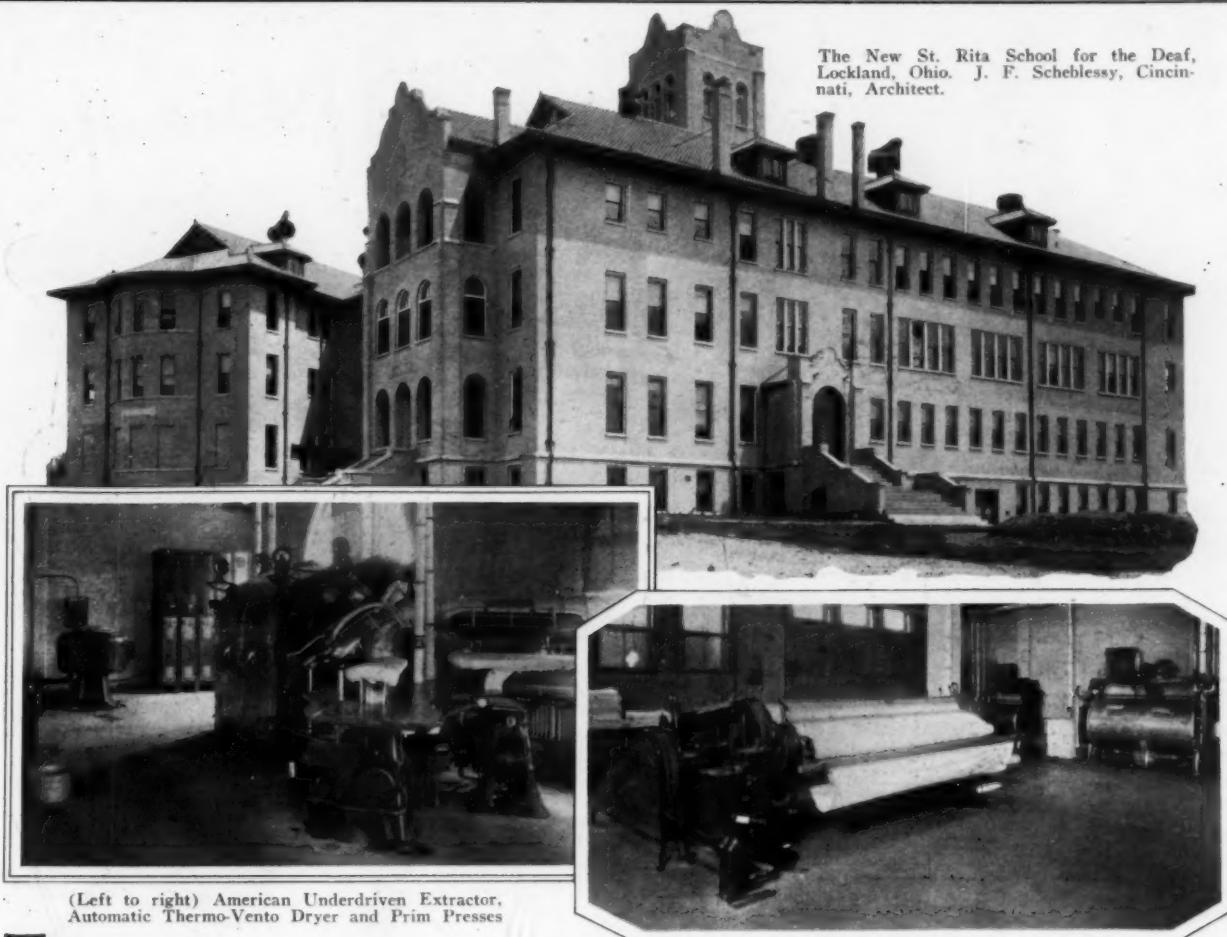
MATERIALS for factory buildings are usually selected on basis of economy. Where any wood flooring is used, Bull Dog Clips reduce the cost of upkeep as well as the cost of construction. Three thousand clips are in use in the building shown here to anchor wood floors over concrete.

Write for samples, installation charts and cost data to complete your files.

Bull Dog Floor Clip Co.
108 North First Ave.,
Winterset, Iowa, U. S. A.
Distributors in principal cities

BULL DOG Floor Clips
ANCHOR WOOD FLOORS TO CONCRETE

No. 27 of a series of advertisements featuring prominent laundry installations



(Left to right) American Underdriven Extractor, Automatic Thermo-Vento Dryer and Prim Presses

American 6-Roll Flat Work Ironer and Cascade Washer

In the new St. Rita School for the Deaf

ABOVE is another example of a satisfied user of "American" laundry equipment — another institution to add to our long list.

Regularly in the laundry of the St. Rita School you'll find great bundles of bedding, linens, and clothes being washed spotlessly clean in the American Cascade Washer, dried in the Automatic Thermo-Vento, and ironed on the Prim Presses or the 6-Roll Flat Work Ironer.

And because this work is quickly handled, fewer sheets, fewer linens, and fewer clothes are needed. Always a ready supply on hand, for all the laundry of the institution is done in the institution.

The St. Rita laundry was entirely designed and installed by "American" engineers.

If you have a laundry problem, we shall be glad to give you the benefit of our wide experience. Just drop us a post card, and we'll do the worrying.

At Your Service . . . a corps of laundry specialists

The American Laundry Machinery Company maintains a corps of engineers who have gained wide experience in planning and equipping most of the country's hotel, commercial, and institutional laundries. If you have any questions pertaining to modern laundry practice, you will find consultation with these specialists advantageous. This service is gladly offered you without any obligation whatever.

THE AMERICAN LAUNDRY MACHINERY COMPANY

Norwood Station, Cincinnati, Ohio

THE CANADIAN LAUNDRY MACHINERY CO., LTD.
47-93 Sterling Road, Toronto 3, Ont., Canada

Agents: BRITISH-AMERICAN LAUNDRY MACHINERY CO., LTD.
Underhill St., Camden Town, London, N.W. 1, England

*Insuring Accurate Thickness
And Uniform Level
With Fewer Hands*

KALMAN Screed Chairs make striking off concrete slabs a fast, accurate, and easy job.

The chairs open to specified slab thickness and are quickly set at proper intervals on the forms. Then the leveling pipes are laid across them. After the concrete is poured the job is finished by pulling the screed boards across the leveling pipes.

The resulting slab is of specified thickness and uniform level throughout. The leveling pipes are easily withdrawn without displacing any of the concrete. And the Kalman Screed Chairs stay in. There is no time lost—no unnecessary labor—no unnecessary costs.

It will be easier to see for yourself how Kalman Screed Chairs can insure accurate thickness and uniform level with fewer hands. Just mail us your name and address. We will send you a sample without obligating you in any way.

KALMAN STEEL COMPANY, 1462 Wrigley Bldg., Chicago

KALMAN STEEL

FOR BUILDINGS

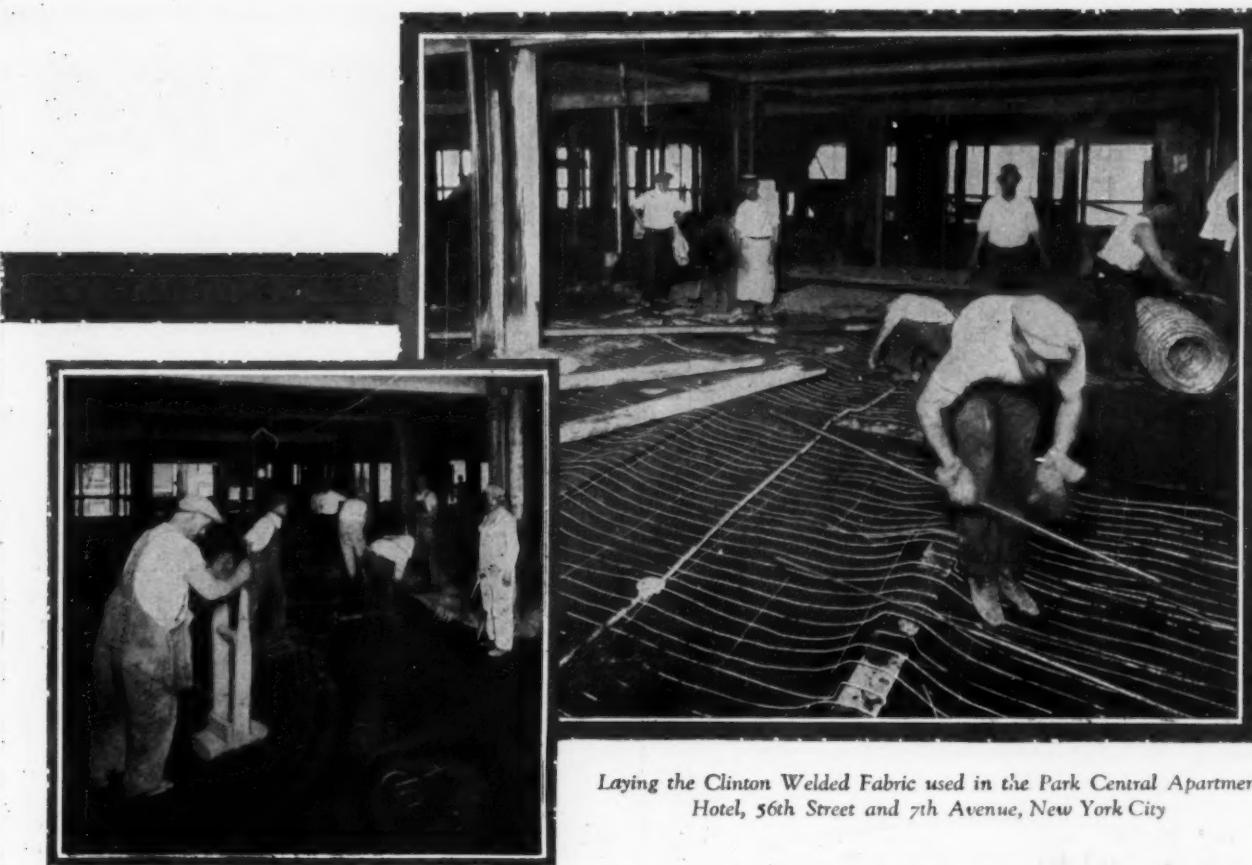
- Corrugated Bars
- Column Spirals
- Slab Spacers
- Beam Bolsters
- High Chairs
- Screed Chairs
- Sleeper Anchors
- Inserts
- Removable Steel Tile
- Permanent Steel Tile
- Column Forms
- Wire Fabric
- Metal Lath

FOR ROADS

- Corrugated Bars
- Wire Fabric
- Bar Supports
- Center Strip
- Expansion Joint

Plants or Offices at

Chicago New York Cleveland Buffalo Detroit Boston Baltimore
Pittsburgh Syracuse Milwaukee Philadelphia St. Louis St. Paul
Kansas City Columbus Atlanta Dayton Minneapolis Youngstown



Laying the Clinton Welded Fabric used in the Park Central Apartment Hotel, 56th Street and 7th Avenue, New York City

STRENGTH AND ECONOMY FROM CLINTON WELDED FABRIC

CLINTON Welded Fabric will contribute to the strength and permanence of Langner & Baer's beautiful 31 story Park Central Apartment Hotel being erected at 56th Street and 7th Avenue, New York City.

The Melrose Concrete Co., that laid the flooring, know that both economy and strength would result from the use of Clinton Welded Fabric. And this is why:

It comes in rolls of sufficient length to be laid quickly and accurately in *unbroken strips* through all spans of the building from one side to the other. No laborious and costly respacing of loose members is necessary.

The intersections are electrically welded in a union as strong or stronger than the original wire. There are no clips, loops or twistings to interfere with the even flow of the concrete. Each group of wires is in line with the principal stresses and a homogeneous unit of tremendous strength results.

The Wickwire Spencer Steel Company itself mines the ore and makes the steel from which it manufactures Clinton Welded Fabric. High quality is safeguarded at every step.

Send for our catalog containing useful information.

WICKWIRE SPENCER STEEL COMPANY
41 East Forty-second Street  New York City



WICKWIRE SPENCER PRODUCTS



SAVOY HOTEL

Under Construction in Detroit

Owners

R. L. SPITZLEY and PAUL KAMPER

Architect, LOUIS KAMPER

Associate Architect, PAUL KAMPER

Plumbing Jobbers, MURRAY W. SALES CO.

Plumbing Contractors

R. L. SPITZLEY HEATING CO.

Being equipped throughout with the

Watrous Flush Valve

THE Watrous Flush Valve promotes correct sanitation and prevents water waste by delivering the exact quantity of water required by the bowl with which it is used. A

A thorough flush is assured without expending more water than is necessary. The regulating port which determines the flow is very easy to adjust, and is prevented from clogging by automatic, self-cleansing mechanism which clears itself of foreign matter in the water whenever a flush takes place.

When the Watrous Flush Valve is installed in combination with the Watrous Duojet Closet, the water-saving is much augmented, as the latter requires only a very limited supply of water for a thorough flush and refill. Also, its design avoids the danger of clogging.

*Write for full details on the
Watrous Flush Valve and Duojet Closets to*



PLUMBING DIVISION

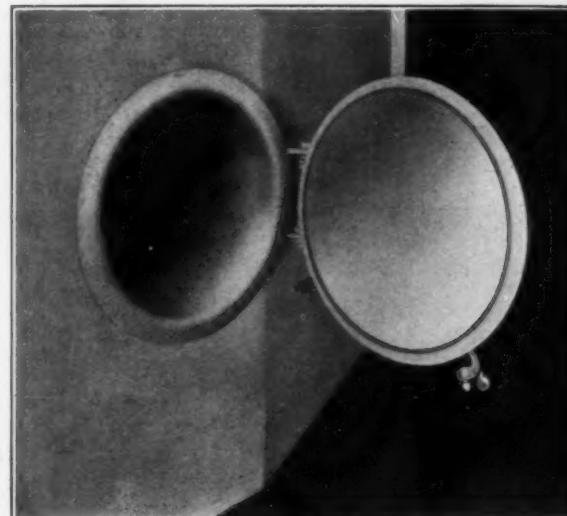
Watrous Flush Valves—Duojet Closets—Self-Closing Basin Clocks—Combination Lavatory Fixtures—Pop-Up Wastes—Liquid Soap Fixtures—etc.

THE IMPERIAL BRASS MFG. CO.
1238 West Harrison Street Chicago

BRANCH SALES OFFICES

H. D. Tuck, 404 Marquette Bldg., Detroit, Mich.
W. E. Blair, Jr., care Coronado Hotel, St. Louis, Mo.
R. J. Shank, 724 Grand Ave., Des Moines, Ia.
Continental Sales Co., 924 Metropolitan Life Bldg., Minneapolis, Minn.

Charles S. Anderson, 6614 Minne Lusa Ave., Omaha, Neb.
Wm. P. Horn Co., 237 Rialto Bldg., San Francisco, Cal.
L. C. Coombs, Rm. 506, 110 W. 11th St., Los Angeles, Cal.
Wm. P. Horn Co., L. C. Smith Bldg., Seattle, Wash.



ANNOUNCING THE PFAUDLER ALUMINUM LAUNDRY CHUTE

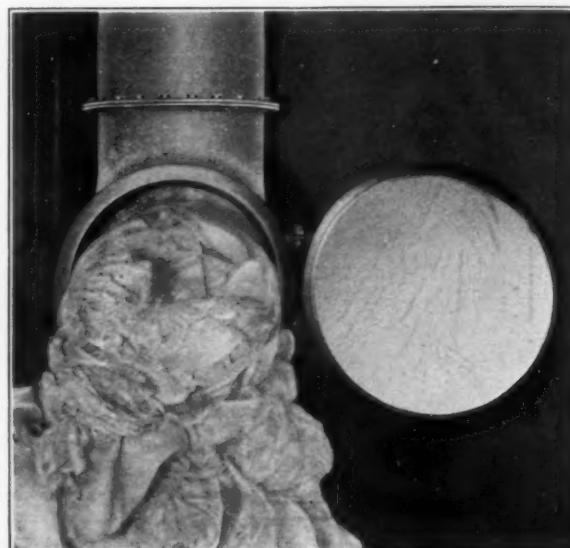
Supplementing the glass-lined laundry chute and the steel dust chute, The Pfaudler Company now offers an Aluminum Chute that will meet every financial consideration.

Built under the same careful supervision you are assured the same high quality workmanship. This chute is constructed of 1/16" aluminum shell with 1/8" throat cylindrically rolled and riveted with countersunk aluminum rivets. Flanged ends are joined by aluminum bolts, securely packed with "Pfaudlerite" gaskets, which makes a watertight connection.

To provide additional strength and durability a glass-lined steel elbow is furnished for the bottom of the chute that will withstand the severest jolts caused by falling linen.

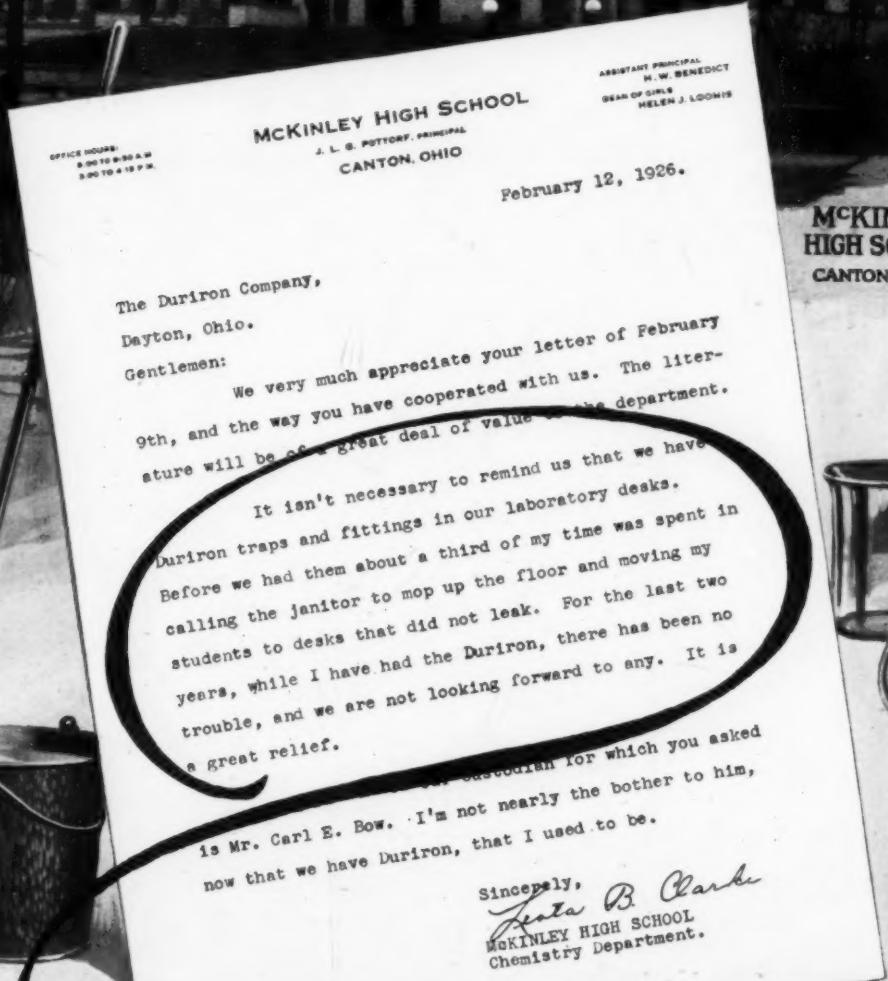
*Detailed specifications furnished
upon request*

THE PFAUDLER COMPANY
Laundry Chute Division, ROCHESTER, N. Y.



PFAUDLER
glass lined

"MOPPING and MOVING" or CHEMISTRY?



MCKINLEY
HIGH SCHOOL
CANTON · OHIO



A new argument for Duriron acid-proof
drain pipe and laboratory equipment ~
It increases teaching efficiency!

The DURIIRON COMPANY
DAYTON · OHIO



Sher'a

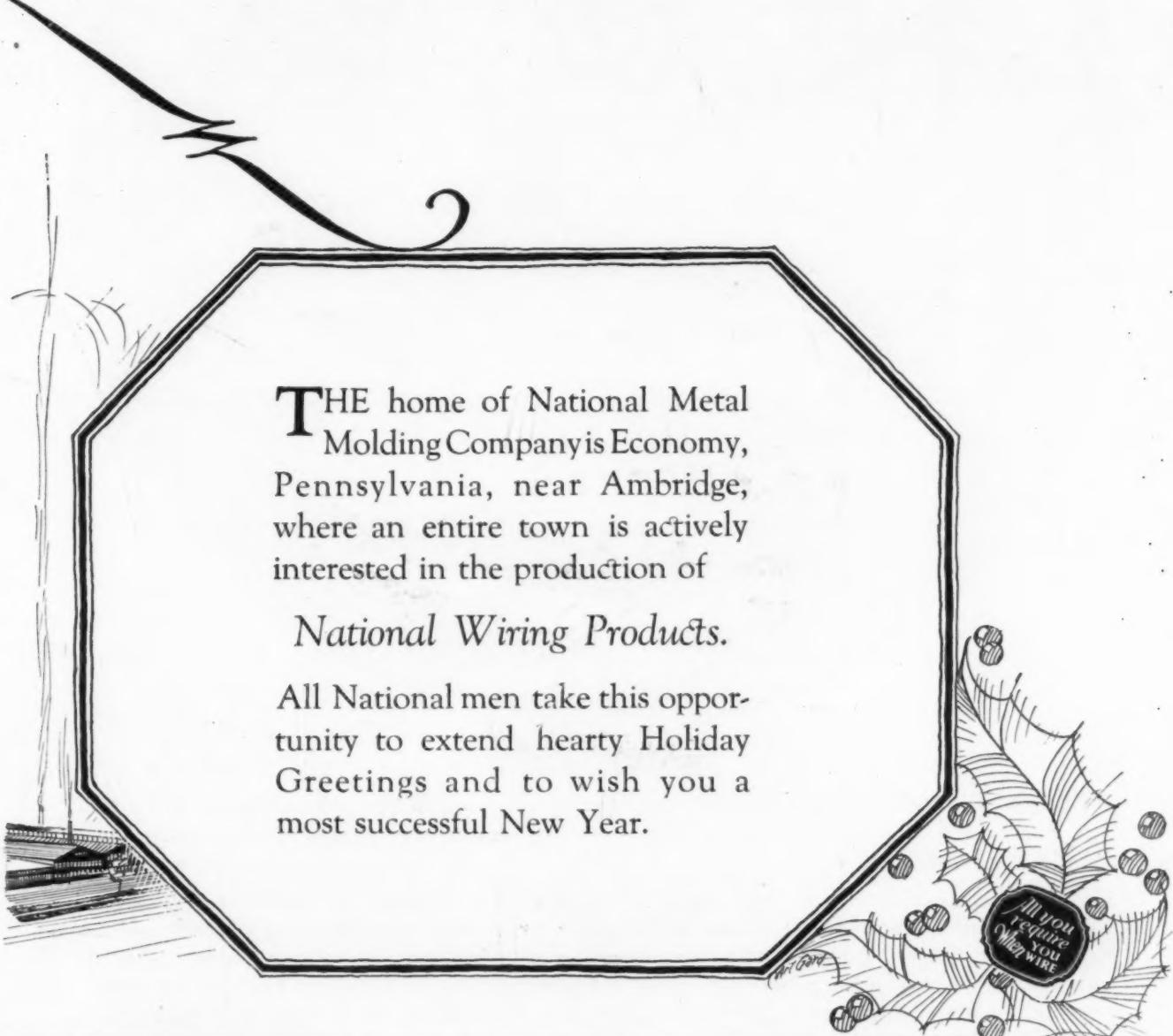
A SPELLED-UP STEEL PIPE SHERARDIZED



national metal
The National Wiring System ~ FOR SAFETY AND PERMANENCE ~

product

AND ENAMELED FOR SAFE PERMANENT WIRING



THE home of National Metal
Molding Company is Economy,
Pennsylvania, near Ambridge,
where an entire town is actively
interested in the production of

National Wiring Products.

All National men take this opportunity to extend hearty Holiday Greetings and to wish you a most successful New Year.

molding Company
1101 Fulton Building PITTSBURGH ~ PA.

A wise Investment-A well placed Trust!



NATIONAL

WHAT structures require better equipment than buildings such as these—built, as they were, to serve for years and years as monuments to civic interest and civic pride?

Far famed architects and engineers, schooled in the selection of quality equipment, specified only dependable materials—for civic pride and the necessity of endurance allowed little opportunity for the consideration of any other factor than quality of the highest degree. These masters of their art specified "NATIONAL" Pipe along with the other dependable equipment—because they considered it a wise investment—a well placed trust.

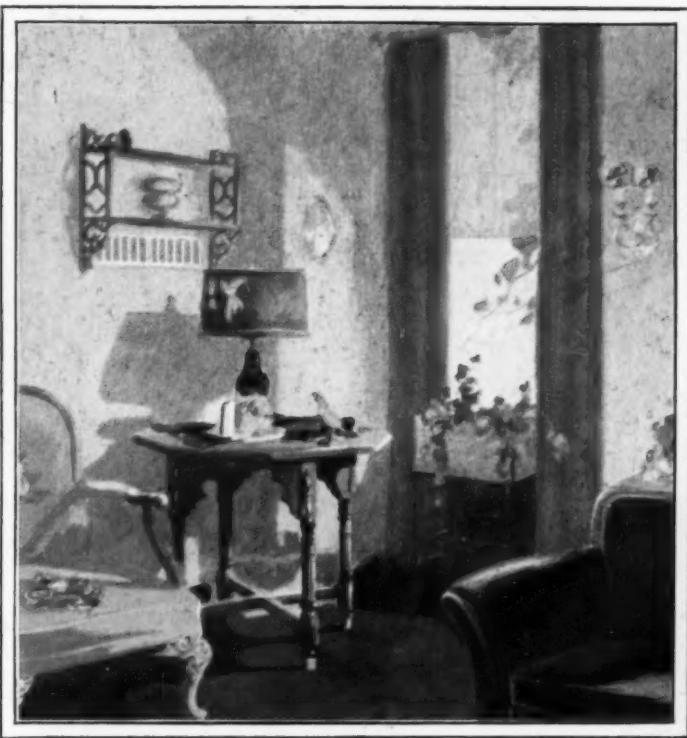
To those interested in the advantages and use of "NATIONAL" Pipe in fine buildings, we offer Bulletin No. 25—"NATIONAL" Pipe in Large Buildings.

NATIONAL TUBE COMPANY, PITTSBURGH, PA.
District Sales Offices in The Larger Cities

How Reuben N. Trane's Vision Revolutionized Heating



Reuben N. Trane
President
The Trane Company



—the story of today's outstanding success in the heating industry

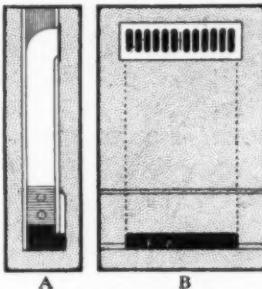
Less than a year ago, the announcement by Reuben N. Trane of a new type of heating unit, created a sensation in the heating field. The trade was waiting for this achievement and quickly responded. Over 1200 orders poured in almost over night —before a single sample had been sent out.

The overwhelming success of Trane Heat Cabinets is founded

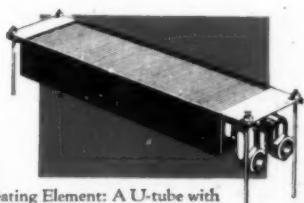
on simple principles, known to all heating men and now applied by Reuben N. Trane in a practical way to produce better, quicker heating and more beautiful rooms.

Write today, let us send complete information regarding this revolutionary change in heating methods.

THE TRANE COMPANY
ESTABLISHED 1885
LA CROSSE WISCONSIN



(A) Cross section view of Trane Heat Cabinet as installed in the wall. Air inlet and heating element at bottom, air outlet at top.
(B) Front view of the finished installation. Only the inlet and outlet are visible. Dotted lines indicate position of Cabinet in the wall.



The Heating Element: A U-tube with closely spaced copper plates attached by the patented Trane process.

TRANE HEAT CABINETS

Successors to the Radiator



Baker Building, Minneapolis, Minn. G. M. Orr, Mechanical Engineer. Larson & McLaren, Architects. Huston & Company, Heating Contractors.

First Choice for the Big Heating Installations

The Baker Building, Minneapolis, is typical of large modern buildings in which Trane Bellows Traps and Trane Bellows Packless Valves are specified by leading architects and engineers. Here, 527 Trane Traps and 495 Trane Valves were used in the main building, together with 43 Trane Traps and 42 Trane Valves

in the garage shown at the left of the picture.

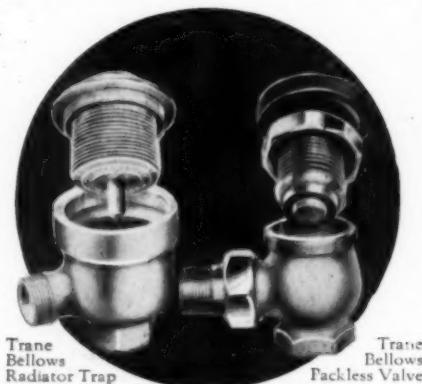
Long experience has taught the heating world that Trane equipment can be depended upon for continuous, efficient operation on the largest projects. A Trane job is right—or Trane makes it right. Every unit is fully guaranteed.

Write for Bulletin 14.

THE TRANE COMPANY, 220 Cameron Avenue, La Crosse, Wis., manufacturers of vapor and vacuum heating specialties, Heat Cabinets, and pumps. Branches and sales connections at New York, Chicago, Boston, Cincinnati, Newark, Philadelphia, Buffalo, Cleveland, Detroit, Seattle, Los Angeles, Albany, Minneapolis, Greensboro, N. C., New Orleans, Kansas City, Mo., Zanesville, Ohio, Tampa, Fla., Baltimore, Md., Des Moines, Ia., New Haven, Conn., Sheboygan, Wis. In England: 22-23 Clerkenwell Close, London, E. C. 1. In Canada: The Trane Company, 23 River Street, Toronto, 2; Thomas Robertson & Company, 134 Craig Street, West, Montreal; F. S. Murdoch, 4 St. Elmo Block, Colony St., Winnipeg; In Japan: Mitsubishi Shoji Kaisha, Ltd., Thermal Supply Department, Tokyo. In China: C. J. Doughty & Company, 30 Brenan Road, Shanghai.

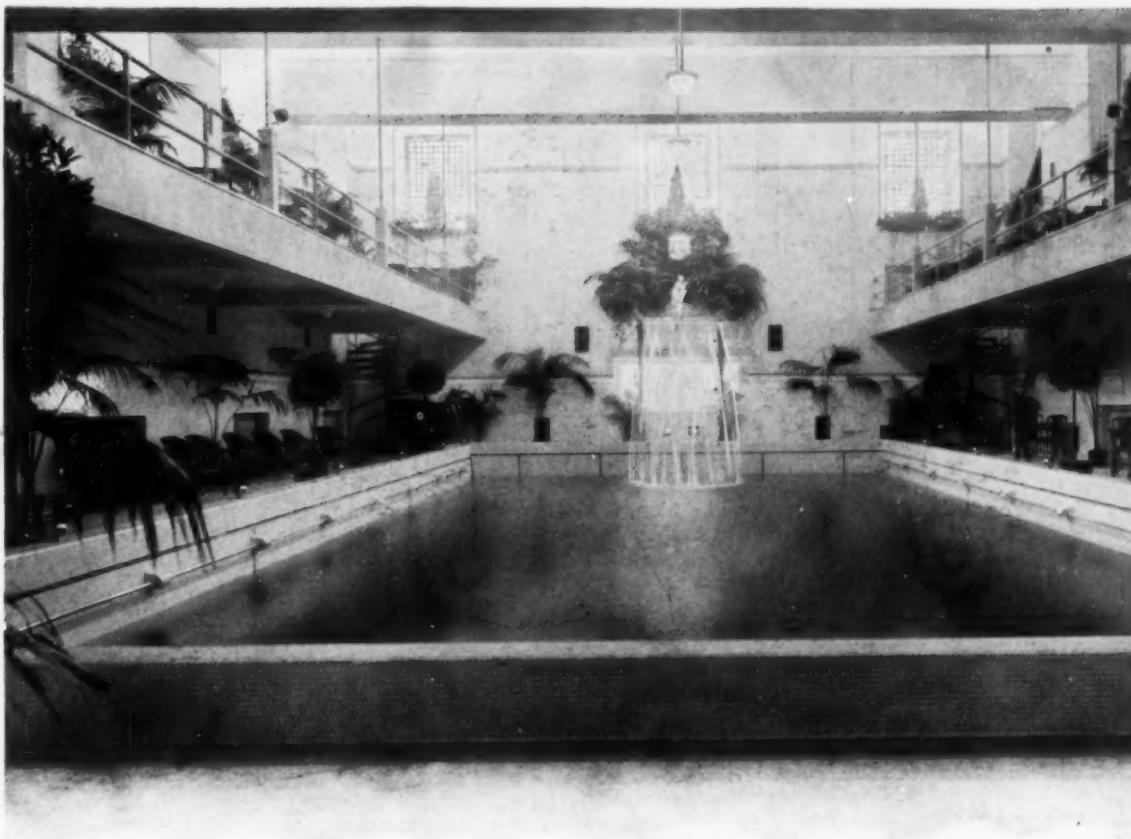
TRANE

HEATING SPECIALTIES



Trane
Bellows
Radiator Trap

Trane
Bellows
Packless Valve



What Makes a Good Swimming Pool?

A swimming pool may be beautifully designed and built. It may have all of the lure of blue water and sparkling white tile. But the real determining factor of its success is the water.

If the water in a pool is not properly sterilized, sickness and infections may result. And if it is sterilized with biting chemical germicides the users run the chance of smarting eyes and similar discomforts.

Here is a way to assure the success of the pools you design and also do away with the unpleasantness of biting chemicals: Specify R-U-V Ultra Violet Ray Sterilizers on the water inlets or recirculating systems.

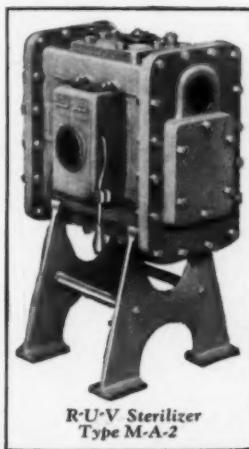
By this method, powerful ultra violet rays, produced by quartz mercury vapor lamps,

penetrate each drop of water that enters the sterilizers — and instantly kill all harmful bacteria. In addition the rays set up a residual germicidal action that keeps water pure after it is in the pool.

And the R-U-V Sterilizer is easy to operate, because the action is practically automatic. There is no dosage to regulate. The bactericidal action is always positive and unavoidable. And the chemical composition isn't changed in the least.

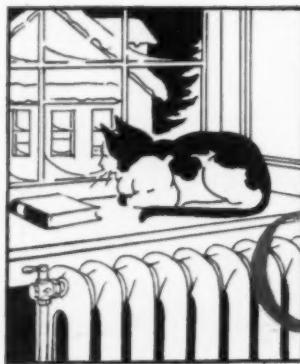
If you are interested in providing such water for your pools—water that feels just like Nature intended it to feel and is pure enough to drink — write for our latest swimming pool booklet. It contains a number of illustrations and descriptions of typical R-U-V installations.

The R. U. V. Co., Inc.
383 Madison Ave.
New York City



R-U-V
Ultra Violet Ray Water Sterilization

James B. Clow & Sons
201-299 No. Talman Ave.
Chicago, Ill.



Jenkins Fig. 700 Modulating Valve

Keeps good heating at its best

A heating boiler may be of approved design, the piping layout correct, the radiation ample, but still the comfort and convenience to be derived from the system can be marred by an unreliable or poorly constructed valve.

The design of the Jenkins Fig. 700 Modulating Valve combines several features that aid in keeping good heating at its best.

It is a valve for low-pressure steam, vapor, and vacuum heating, differing from present-day modulating valves in principle of design, affording improvements that make it the most efficient valve for heating radiators.

These are some of its advantages:

Has a Jenkins Rubber Composition Disc and always seats perfectly; scale and core sand cannot lodge on seat, because the seat is vertical, not horizontal.

No water-hammer, gurgling, or shock, because steam entering radiator is not retarded by returning condensation.

Vacuum is under disc, not on top of it, with no loss of vacuum when valve is closed.

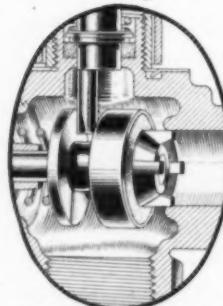
No hexagons, but beads or ribs instead which conform closely to grip of pipe wrench, thereby preventing marring of valve when it is being installed.

Special bonnet construction to prevent leakage around spindle.

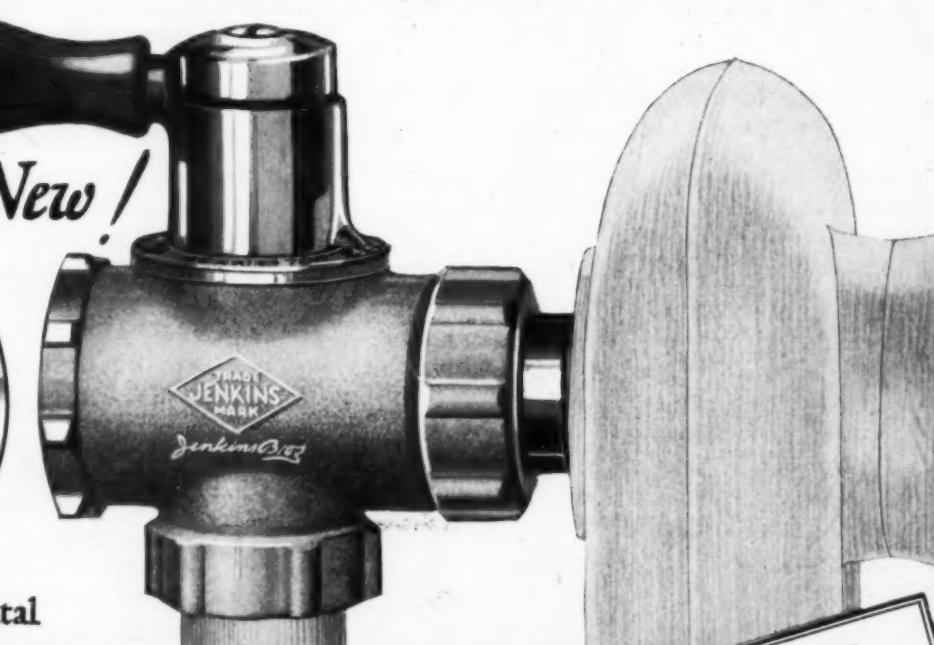
The valve is made of bronze, nickel plated. $\frac{3}{4}$ -inch size, suitable for 100 square feet of radiation.

We shall be pleased to have a Jenkins Service Representative submit a sample for your inspection. You incur no obligation in making this request.

Entirely New!



Vertical Seat
instead of horizontal

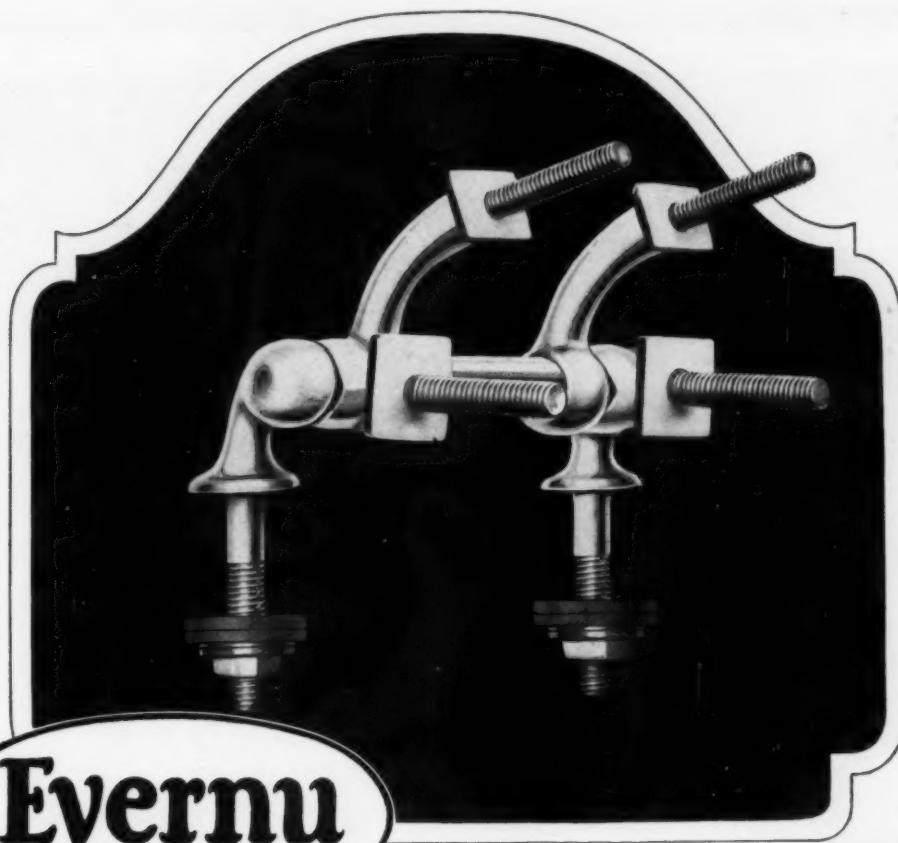


Always marked with the "Diamond"

Jenkins Valves

SINCE 1864

JENKINS BROS.
80 White St., New York, N. Y.
524 Atlantic Ave., Boston, Mass.
133 No. Seventh St., Philadelphia, Pa.
646 Washington Blvd., Chicago, Ill.
JENKINS BROS., Limited
Montreal, Can. London, Eng.



Evernu
Everlasting Hard Rubber
Seats

**A hinge that holds
forever!**

Molded in one lasting piece, an Evernu Hard Rubber Seat will last forever—there's practically no wear-out to it.

But what of the hinge? That, too, will last forever without the slightest loosening of its vice-like grip. The pure hard rubber takes a steel-like thread. Even after a lifetime of service the hinge will be as firm as the day it was installed—will get tighter as the steel lugs "freeze" into rubber. This is a bar hinge of the concealed type and is extra heavy. A check is provided on seats without lids to prevent the seat from falling back against the valve, wall or tank. There is no metal on the top or bottom of the seat.



Evernu—the perfect seat—is made of rubber molded in one lasting piece. The hollow center provides great strength with lightness. The nickel-plated, bar hinge, concealed type, is secured by heavy threaded lugs that will hold forever.

The regular equipment is nickel plated, cast brass. However, architects may, if they wish, specify white metal hinges. On all Evernu Hard Rubber Seats without a cover a check hinge is used unless otherwise specified.

The Evernu Guarantee is unconditional. The hard rubber is impervious to acids and cleansers and is unaffected by steam and low temperature. There is a model for every type of bowl.

In public lavatories, where use and abuse are hardest, the Evernu is proving its greater durability and greater economy.

Write today for a catalog and cross section of an Evernu Seat.

When a wood seat is needed, specify

NEVER-SPLIT

It is famous for the bolted construction that makes splitting, warping, and separation of joints impossible. The cross grain of the carefully seasoned oak and gum runs around the hole and withstands every strain. Each seat is hand-brushed and beautifully finished, and there is a model for every type of bowl.



NEVER SPLIT SEAT COMPANY

Dept. 1212, Evansville, Indiana, U.S.A.

Founded 1905

THE LARGEST MANUFACTURERS OF TOILET SEATS IN THE WORLD!

FAUCETS ARE THE VITAL SPOTS OF PLUMBING



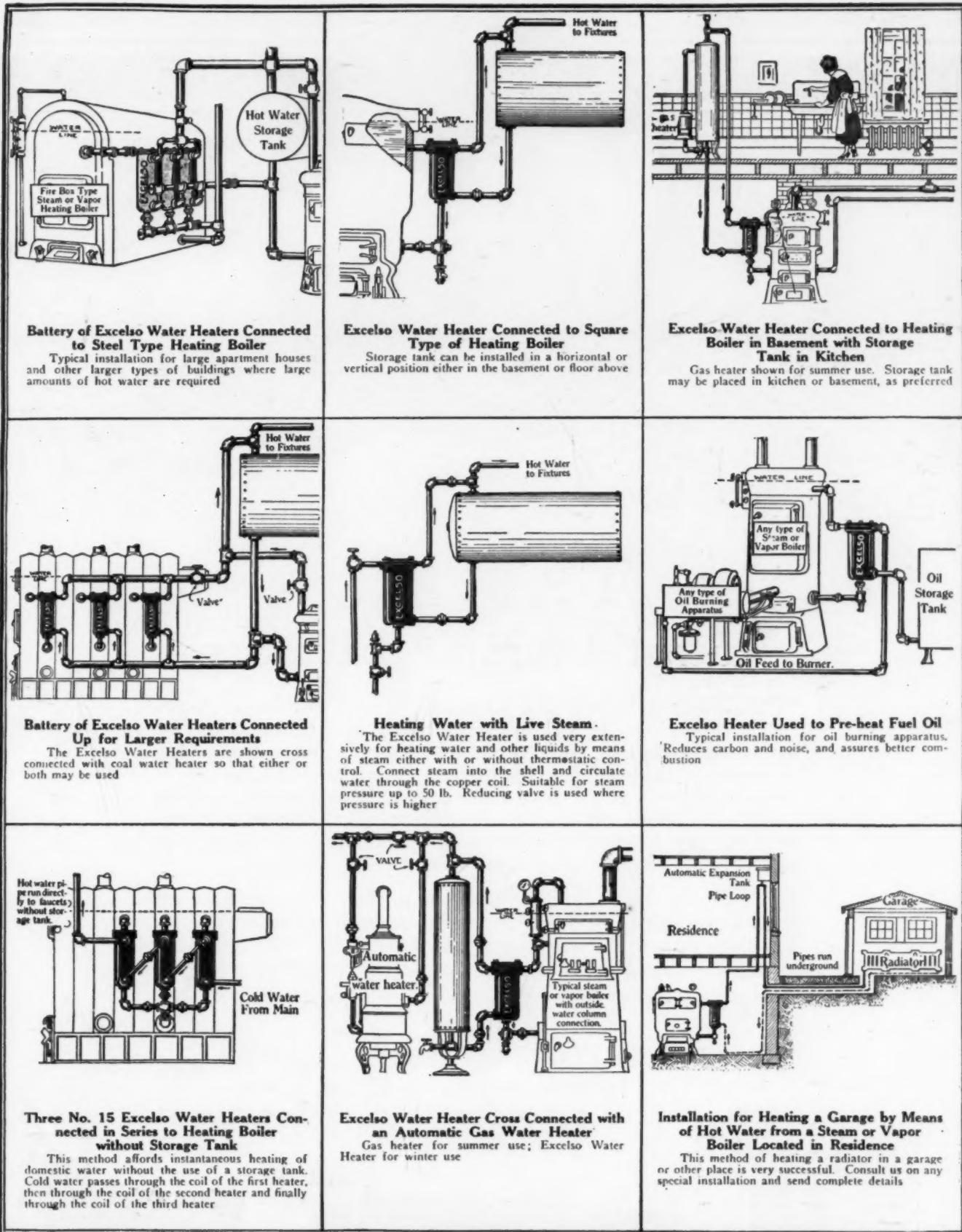
Santa likes a quiet house

Santa cares about quiet on Christmas Eve. But the home owner and his family insist upon it the year 'round. Noisy plumbing is out of date. Leaking, gurgling, sleep-destroying faucets are taboo. Hundreds of modern-minded architects and builders specify Mueller Faucets, for they know that Muellers give the kind of service home owners desire. Sixty-nine years of quality manufacturing methods are behind Mueller dependability.

MUELLER CO. (Established 1857) Factories: Decatur, Illinois; Port Huron, Michigan; Canadian Factory: MUELLER, Limited, Sarnia; Branches: New York, San Francisco, Los Angeles

316

MUELLER FAUCETS
faucets without a fault

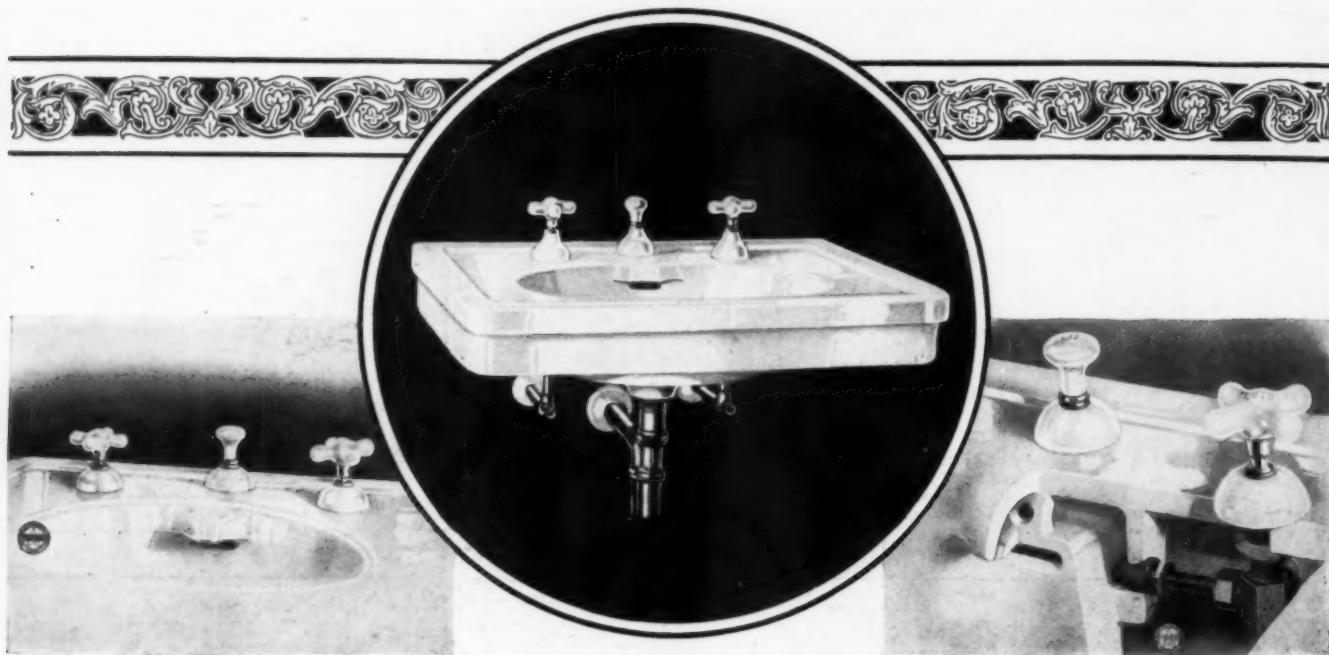


Typical Installations
Tear this page out
For Your File

EXCELSO
WATER HEATERS

EXCELSO SPECIALTY
WORKS, INC.

69 Clyde Ave., Buffalo, N. Y.



The "Te-pe-co" Integral China Mixing Chamber with the Single-stream Integral Nozzle eliminates exposed metal above the slab.

The water enters from both sides of the overflow into the Te-pe-co Integral China Mixing Chamber before discharging through the Integral Nozzle.

TE-PE-CO Integral Supply Lavatory

THE Te-pe-co Integral China Mixing Chamber with Single-stream Integral Nozzle is the most sanitary supply fixture that can be furnished. It makes it possible to wash in running water thoroughly tempered in the mixing. This Integral China Mixing Chamber is exclusively Te-pe-co. It is what makes our integral nozzle lavatory superior to others, since its construction checks the flow of water and thoroughly mixes hot and cold. The result is a splashless stream of water of ample volume and properly tempered.

Many of our country's finest hotels and other buildings have installed this type of Te-pe-co Lavatory along with our other All-Clay Plumbing Fixtures. Every natural, mechanical, chemical and financial resource available is utilized to build one unvarying quality—the best—into this Te-pe-co Ware.

THE TRENTON POTTERIES COMPANY Trenton, New Jersey, U.S.A.

New York

Boston

Philadelphia

San Francisco



Warwick Apt. Hotel
Philadelphia
Frank E. Hahn, Archt.



Rickley Memorial Hospital
Springfield, Ohio
Langdon-Hohly & Cram, Archts.

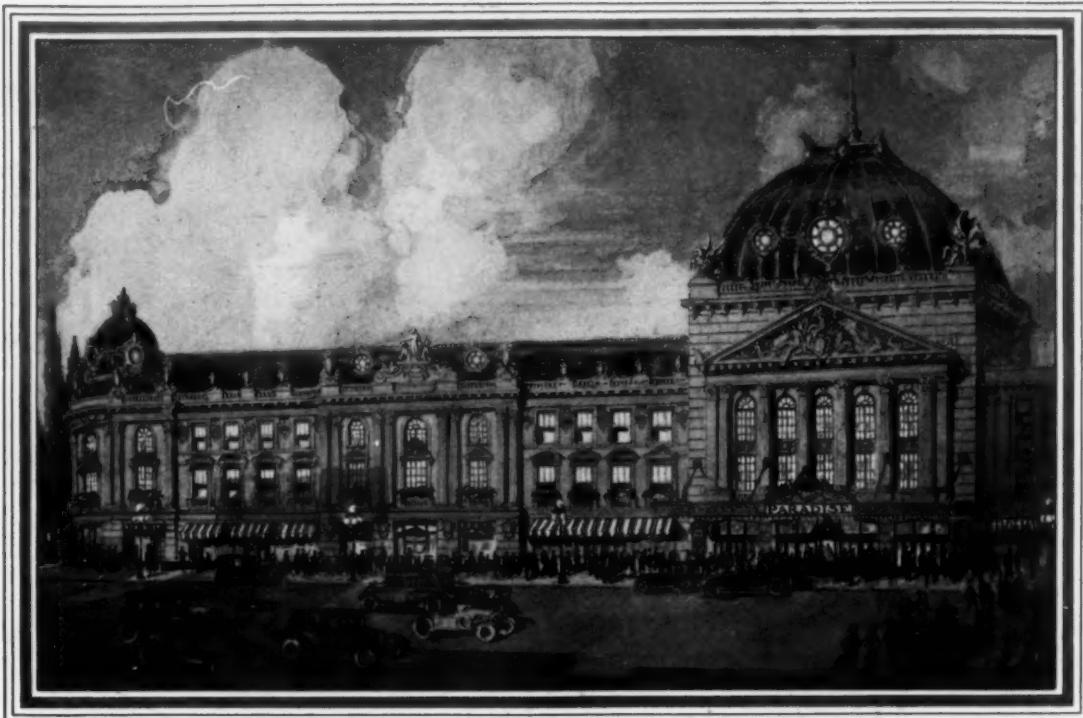


Drake Hotel
Chicago, Ill.
Marshall & Fox, Archts.

150 Pounds Pressure

CRANE VALVES

2500 Pounds Pressure



Paradise Theater, Crawford Avenue and West End Avenue, Chicago, Ill. Plumbing materials supplied by Crane. Architect, John Eberson, Chicago. General contractors, Lind Construction Co. Plumbing contractor, G. Albin Nilson. Heating contractor, W. S. Ray Manufacturing Co.

PLUMBING FOR THE LAND OF DREAMS

For millions of monotonous, work-filled, worry-ridden lives, the doors of the motion picture theater swing open into a land of no-matter-how-impossible dreams. Into the unfettered thrill of bold adventuring, the silken couches of languorous luxury, the soft music of love in spring, the elusive light of beauty, and the lure of far romance.

To create a setting worthy of the dream, architects who specialize in theater building, prosaically plan. An exterior promising

ing unaccustomed delight; foyer, auditorium, and retiring rooms worthy of princess and hero on holiday; nothing anywhere dismaying the precious, fugitive illusion.

To such planning, Crane plumbing fixtures, valves and fittings have been found to be exceptionally well adapted. Graceful lines of fixtures fitting harmoniously into the decorative scheme; valves and fittings mechanically perfect and trouble free; leave no flaw to break the delicate thread.

CRANE

Address all inquiries to Crane Co., Chicago

GENERAL OFFICES: CRANE BUILDING, 836 S. MICHIGAN AVENUE, CHICAGO

Branches and Sales Offices in One Hundred and Fifty-five Cities

National Exhibit Rooms: Chicago, New York, Atlantic City, San Francisco and Montreal

Works: Chicago, Bridgeport, Birmingham, Chattanooga, Trenton, Montreal and St. John, Que.

CRANE EXPORT CORPORATION: NEW YORK, SAN FRANCISCO, MEXICO CITY, HAVANA

CRANE LIMITED: CRANE BUILDING, 386 BEAVER HALL SQUARE, MONTREAL

CRANE-BENNETT, LTD., LONDON

CIE CRANE: PARIS, BRUSSELS

The
Madbury Lavatory
*—a type for each
 particular bathroom*



THE Maddock "Madbury" Lavatory of Durock is the last word in beauty, convenience, cleanliness and durability.

The larger illustration shows the pedestal style; the smaller, the leg style. Both are identical in every detail except the method of support.

Because the leg style costs less to manufacture, it may be furnished at a somewhat lower price than the pedestal style; also it may be supplied, if desired, in a smaller size.

Both styles are made of all white Durock, including trimmings. Durock will not chip, crack, craze nor discolor.

The "Madbury" is the only lavatory made with a self-cleansing overflow, insuring complete sanitation. Hot and cold water, mixed to any desired temperature, is directed to the center of bowl in a single stream. There is a large square bowl with anti-splash rim.

Durock lavatories remain new indefinitely. They can always be kept spotlessly clean by merely wiping with a damp cloth.

Write us for as many copies as you can use of our booklet, "Maddock Bathrooms". They will help you "sell" clients on quality fixtures, and make them more appreciative of such fixtures when recommended. There will be no charge for the booklets.

THOMAS MADDOCK'S SONS COMPANY
 Oldest Sanitary Potters in America
 Trenton, N. J.

MADDOCK
DUROCK Bathroom Equipment

DUROCK
*the perfect material for
 bathroom equipment*

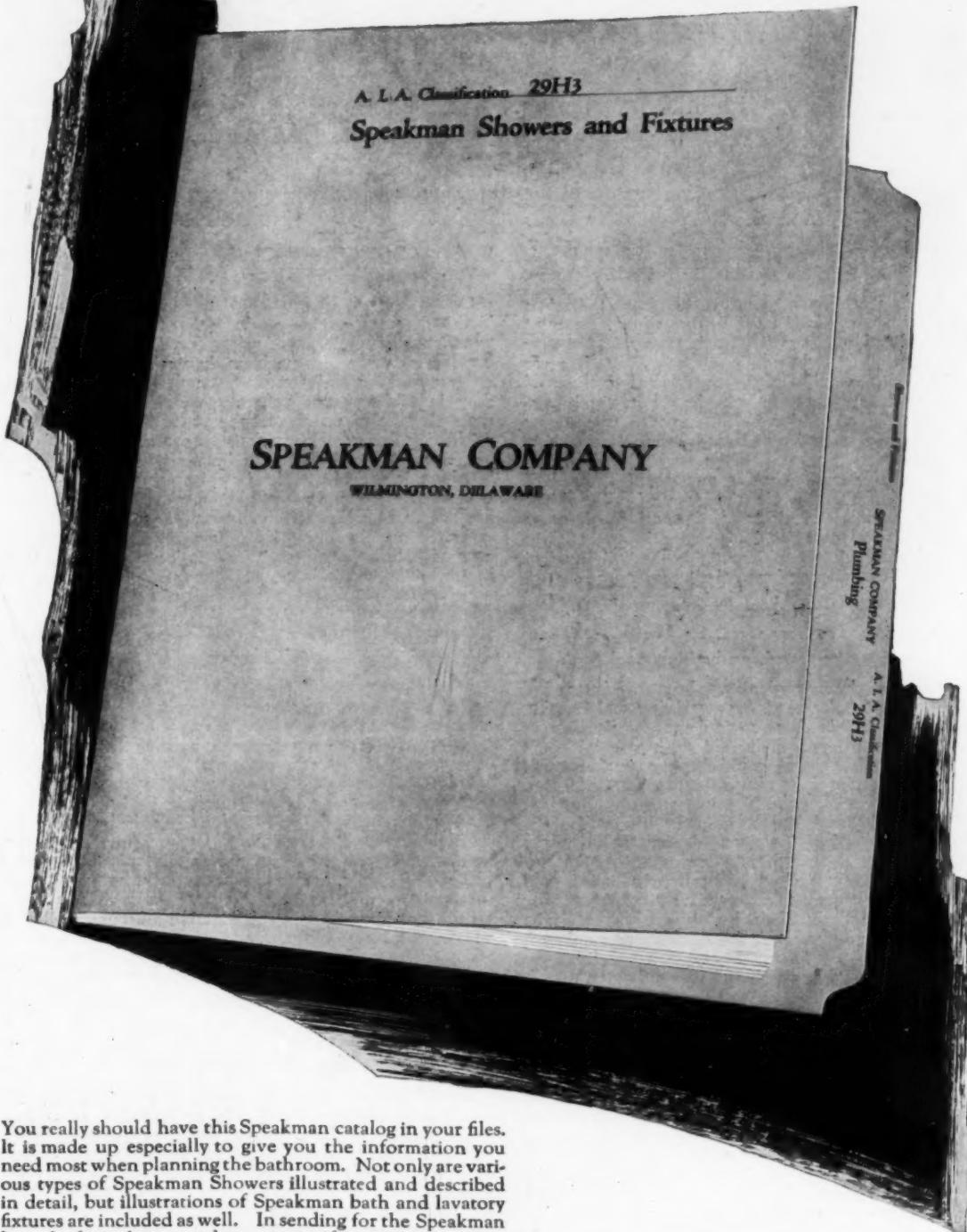
is stain
 proof



IODINE is often dropped on the lavatory basin. It will leave an indelible stain on ordinary coated ware but can be readily wiped off of a Durock lavatory.

Durock cannot be stained.

All details of various types of shower installations are shown in this catalog



You really should have this Speakman catalog in your files. It is made up especially to give you the information you need most when planning the bathroom. Not only are various types of Speakman Showers illustrated and described in detail, but illustrations of Speakman bath and lavatory fixtures are included as well. In sending for the Speakman loose-leaf catalog, use the coupon if more convenient.

SPEAKMAN COMPANY, Wilmington, Delaware

SPEAKMAN SHOWERS
and **FIXTURES**

SPEAKMAN COMPANY. Wilmington, Del.

Please send me your catalog H in loose-leaf form; also reprint of your eleven pages in Sweet's Architectural Catalog, 1925-26 edition.

Name.....

Address.....

Firm.....

Reviews of Manufacturers' Publications

SANYMETAL PRODUCTS COMPANY, Cleveland. "Sany-Metal Products." A manual on the advantages of their use.

Partitions, screens, etc., are necessary in countless instances to divide large floor areas into rooms or private offices, and in a somewhat different form to enclose toilets, shower baths and other utilities, particularly in manufacturing structures, schools, or in fact a building of any sort which is used by large numbers of people. This helpful brochure illustrates and describes a valuable line of metal partitions and screens designed for these purposes, and also the metal doors which are often used even when the partitions themselves are of slate or marble. The booklet explains by working drawings and diagrams the correct use of these partitions and doors and the many small parts or details which go with them to complete installation.

BISHOPRIC MANUFACTURING CO., Cincinnati. "Bishopric Sunfast Finish." A desirable coating, in color, for stucco.

In this folder data are given regarding "Bishopric Sunfast Finish," which is being widely used throughout America with good results. Used for the finishing coat of a new house or for renovating a structure already built, it gives the color which adds to the interest and attractiveness of any building. "Sunfast" is practical because it can be applied quickly over any exterior brick, cement, concrete or steel surface. It mixes readily and easily, spreads smoothly and forms a permanent coating. Dampness in the air serves to increase the setting and adhesive powers of "Sunfast," instead of retarding them as in the case of oil finishes. "Sunfast" is a permanent, damp-proof coating of great bonding power. It comes as a dry powder in an air-tight metal drum, and is mixed only with water at the building site. This folder gives illustrations of many buildings stucco coated.

WALLACE & TIERNAN CO., INC., Newark. "Swim in Drinking Water." An important work on bathing pool building.

The owners of bathing pools have been quick to find that unless some means be used for purifying and keeping pure the water which fills them, a pool may easily become a menace to health instead of the aid to health which it should be. If each individual could have a pool for his sole use, with a constant inflowing stream of pure water, swimming pool purification would be unnecessary. But just as soon as a pool is used by others a health problem is created, for contamination from one bather pollutes the entire pool and comes in contact with every other bather. This brochure describes a method by means of which a pool may be kept filled with water as pure as that meant for drinking and absolutely sterilized by chlorination. The booklet describes the process and the mechanism employed, and the wide adoption of the method is attested by three closely printed pages giving names of institutions where it is used, such as clubs, Y. M. C. A. and Y. W. C. A. buildings.

ZOURI DRAWN METALS CO., Chicago Heights, Ill. "The Business of Buying a Store Front."

The immense improvement which has characterized the designing of shop fronts during the last few years is due, more than to anything else, to the wide use of steel in constructing them. The heavy and cumbersome wood mullions and muntins which were used until the advent of steel afforded but small opportunity for exercising that grace and finesse in design which, it is now found, are to be had without much effort when use is made of the slender (though extremely strong) members of steel which hold plate glass in the strictest alignment and at angles quite impossible when wood was used. This brochure is issued by a firm well known for its steel used in shop fronts. It gives illustrations of quite a number of excellent, well designed fronts of several types,—windows arranged in the usual, conventional way; windows deeply recessed, often so much so as to give a "corridor" effect; windows planned on the "island" principle, etc., and with each is given the plan required to make the illustration's meaning quite clear. This brochure should be had by every architect.

BONDED FLOORS COMPANY, INC., New York. "Distinctive Floors." A useful work on a highly important topic.

The richness and dignity of many interiors, particularly those of a more or less public nature, may be attributed very largely to their floors. Floors of wood often possess certain disadvantages, and people have even been known to object to the use of marble owing to its hardness and coldness. There is now available, however, a type of flooring which possesses all the architectural value and dignity of marble,—even presenting much the appearance of marble,—without marble's disadvantages. The claims of this admirable flooring material are presented in this and various other booklets issued by the Bonded Floors Co., Inc., these publications illustrating uses of the material which are sure to increase or extend their already wide use.

WALLACE & TIERNAN CO., INC., Newark. "What Is Pure Water?" A booklet on purifying water for public use.

One extremely important detail of the work of public health departments has to do with preserving the purity of water supplies. Securing water for a large city is likely to involve far more of a problem than might be supposed. Few cities can draw their water from a fresh water lake, as is done by Chicago, and generally a vast area is required for the collecting of water, and the water when secured must be purified and treated by various processes before it is pumped by the water works into the homes where it is used. This brochure is one of a series issued by the Wallace & Tiernan Co., Inc. in which various phases of public health engineering are discussed. The booklet deals with the sterilization of water supplies, the disinfecting of sewage and the proper care of bathing pools, and the relation of all these to public health. The work is a valuable treatise on water supply.

PORLTAND CEMENT ASSOCIATION, Chicago. "A Book of Beautiful Homes." A work illustrating progress in design.

During the early days of the use of "concrete masonry" the complaint was often made that buildings so constructed were wanting in grace of design. They sometimes seemed to possess a certain awkwardness which was not found in structures built of other materials.—of brick or wood, for example. That this disadvantage has been overcome and that architects have learned to use the material is abundantly proved by the illustrations in this brochure devoted to building by these methods. It presents illustrations of houses, chiefly of small or medium sizes, from almost every section of the country, built of concrete block, building tile or concrete brick, given various interesting textures by the stucco applied to the concrete masonry walls. Many of these houses are extremely good, as to both design and plan, and with several of them (particularly with those most strongly marked as to style) there are given small illustrations of the textures used upon them for surfacing walls.

CLINTON METALLIC PAINT CO., Clinton, N. Y. "Something New in Stucco." The helpfulness of color in stucco.

This folder describes the widely known "Clinton Colors," specified by architects and used by builders and contractors since 1887. With them an almost unlimited variety of effects can be obtained in colored stucco, colors used singly or in various pleasing combinations. Their use involves no real difficulty or disappointments if specifications furnished by the manufacturers are followed with care. Color combinations harmonizing with various surroundings can be had all the way from tones of a soft and subdued warmth, appropriate for a home, up to rich and vivid hues suitable for use where the advertising value of striking novelty is sought. Irregularity and multi-colored effects in stucco work are becoming increasingly popular, evidenced by the large number of cases where the sweep of the trowel is emphasized and where its traces lend an added interest to the wall facing. Houses built in a Spanish type of architecture, theaters, pavilions, stores and other buildings, all provide interesting and practical subjects for the use of single or multi-colored stucco, as is being found in many parts of the country.



That important new fixture ~the KOHLER ELECTRIC SINK

Not since Kohler introduced the "Viceroy" built-in bath have architects been given the opportunity to work with a new plumbing fixture so important in its possibilities as the Kohler Electric Sink.

Here is, at last, the modern sink, incorporating the perfected electrical

dishwasher. It is a fixture as beautiful as it is efficient—with a well-nigh irresistible aesthetic and practical appeal for every woman.

The Kohler Electric Sink is made in models suitable for all home and apartment installations. You are invited to write for full particulars.

KOHLER CO., *Founded 1873, KOHLER, WIS.*
Shipping Point, Sheboygan, Wis. • Branches in Principal Cities

KOHLER OF KOHLER
Plumbing Fixtures

Reviews and Announcements

LEHIGH PORTLAND CEMENT CO., Allentown, Pa., and Chicago. "Building Better Homes."

The publications of the Lehigh Portland Cement Co. are useful and valuable to architects and builders largely because they deal in a practical way with the fundamentals of the use of concrete masonry. In this brochure there are reviewed some of the results of the competition held in the fall of 1925 for designs of moderate cost, fire-safe houses of Portland cement concrete masonry, the designs received being published in the booklet "Twenty-eight Better Homes." Four of the prize-winning designs have been actually built by the Lehigh Portland Cement Co., in New York, Chicago, Kansas City, and Birmingham, Ala., and the purpose in issuing this brochure is to illustrate to those interested the methods used in these instances and the excellent results obtained. The booklet is lavishly illustrated with views,—of the sites before the buildings were begun; views taken at different stages of building; views of the completed houses, showing their different elevations; and views also of the interiors, fully furnished. There are also given the specifications used for the houses, the quantities of materials used for at least one house, and the actual costs of the houses built in Chicago, Kansas City and Birmingham, all being useful data.

RODDIS LUMBER AND VENEER CO., Marshfield, Wis. "Roddis Doors for Hospitals." An important work on doors.

Architects who build hospitals and convalescent homes know that doors for such buildings differ in certain respects from those used in structures of other types. This booklet is devoted to the "flush door," which had its beginnings in hospital uses. Disinfectants, scientific ventilation, proper dieting, clean and sanitary rooms, and other contributions to the betterment of public health and living conditions had their first employment by hospitals; so did flush doors. Although now used extensively in buildings of other natures, the flush door remains primarily a hospital door. The Roddis X-ray Door is a specialized contribution to hospital equipment. To the eye, the door has the same beauty of appearance as the standard Roddis door, but in the center of the door is placed a thick, continuous sheet of lead. This is bolted in place securely with lead-covered bolts. On the outside are the usual two layers of veneer, the surface veneer being finished as wanted. This X-ray door was designed by an architect of long experience in hospital designing, who desired to get away from the customary heavy, awkward and unsightly lead door used for X-ray rooms. It can be furnished in any desired size and finish, and with lead armament sufficient for any situation.

CHICAGO PUMP CO., Chicago. "Flush-Kleen" Dry Basin Sewage Ejector." Bulletin No. 126.

In this brochure there are explained and illustrated the most recent developments reached by this concern in its sewage ejector pumps. The booklet is devoted to the "Flush-Kleen," regarding which it says: "The strainer itself consists of a cast iron screen 18 inches in diameter. This screen is of 1-inch mesh and is enclosed in a special cast iron housing. The screen is of a different type than has been heretofore used on centrifugal ejectors, and it operates upon a unique principle. This principle is the reversal of flow of water through the screen. The strainer chamber is placed in the ejector pit between the inlet and the pump casing. This means that all sewage entering the wet basin must first pass through this strainer, then through the pump and into the basin. When the water rises in the wet basin to a predetermined height, the switch is closed. The pump starts and reverses the flow of water, pumping the water out of the wet basin, through the strainer and into the sewer. All solids and foreign matter collected by the screen are carried into the sewer by this outward flow of water. The velocity of the water flowing out of the pump and through the screen is great. It is from four to five times the velocity of the water entering the wet basin."

TODHUNTER, INC., 414 Madison Avenue, New York. "Franklin Stoves." Authentic reproductions of old examples.

The building in practically every new house of at least one wood-burning fireplace and the extensive re-fitting for use of many old fireplaces which years ago were "bricked up" have brought a demand for a substitute when a fireplace does not exist. Happily an excellent substitute is not difficult to obtain, for the "Franklin stove," named after its inventor in 1742 and widely used during colonial and post-colonial times, is being well reproduced. It adds to the comfort and cheer given by an open fire the practical heating advantages of a stove; which of course gives to the room where it stands the heat which the actual fireplace would send up the chimney. This particular folder lists and illustrates a few of the fine Franklin stoves offered by this well known firm,—old examples carefully reproduced, together with the andirons, fire irons, etc., which go with them.

Harkness & Lockyer announce the opening of new offices for the practice of architecture at Gulfport, Miss.

C. L. Hutchisson announces his removal from 400 State Office Building to 209 Staples-Powell Building, Mobile.

Louis G. Lestremps, architect, Borden Block, Fall River, Mass., wishes to secure the services of a draftsman who has had five or six years' experience.

C. William Swanson would appreciate the catalogs and other publications issued by manufacturers, mailed to him at 21 High Street, Pawtucket, R. I., where he has opened an office for the practice of architecture.

The Builders' Association, Railway Exchange Annex, Kansas City, desires the catalogs and other publications issued by manufacturers of building materials. The Association maintains a service bureau for the use of architects, engineers, contractors, builders, and others interested.

Wanted: A man to call on the architects in the interests of a nationally known manufacturer of high quality enamels, wall coatings and varnishes. An acquaintance with architects and their problems and also an acquaintance with the materials used in building construction are required. Address, giving full particulars, Pratt & Lambert, Inc., 393 Freeman Avenue, Long Island City, N. Y.

The librarian of the Alabama Polytechnic Institute is anxious to secure copies of THE ARCHITECTURAL FORUM for December, 1925 and March, 1926, to complete his files. He would appreciate hearing from anyone having these copies for disposal. Communications should be addressed to Frederic Child Biggin, Head Professor of Architecture, Alabama Polytechnic Institute, Auburn, Ala.

VAN RENSSELAER P. SAXE, C.E.

Consulting Engineer

**STRUCTURAL STEEL
CONCRETE CONSTRUCTION**

Knickerbocker Building

Baltimore

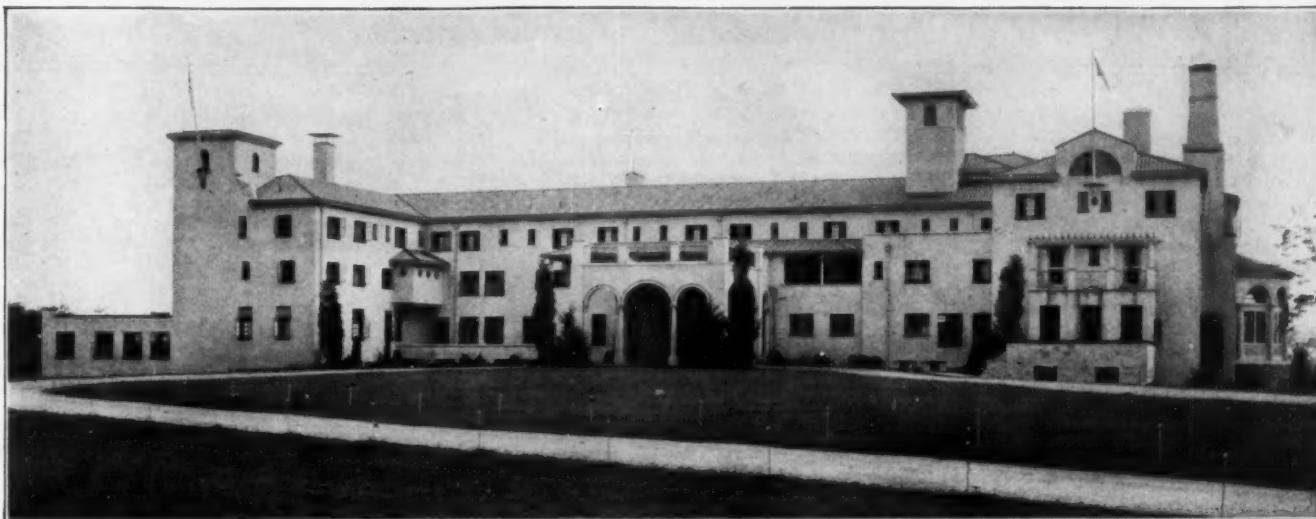


Photo by Leet Bros., Washington, D. C.

*Congressional Country Club, Washington, D. C.
Contractor, M. Serretto, Washington, D. C.
Architect, Philip M. Jullien, Washington, D. C.*

Permanent!

**The concrete floors of this Washington Country Club
will never dust or wear**

THERE will never be any dusty, worn-out concrete floors in the Congressional Country Club in Washington. Mr. M. Serretto, the Washington contractor, recently treated all the concrete floors in this building with Lapidolith. He knew that this floor hardener would permanently guarantee floors that are dustproof, waterproof, and wearproof.

Lapidolith is a liquid chemical. This compound can be applied as easily as water, and dries overnight. It is remarkable how quickly Lapidolith penetrates the porous cement, fills in the voids and binds the concrete particles

together. It changes even an old concrete floor surface into a dense, smooth structure that is as wear-resisting as granite.

Lapidolith has been used by leading architects and contractors for more than fifteen years. Lapidolith is used by the Campbell Soup Company, Fisher Body Company, Ford Motor Company, Standard Oil Companies, Swift and Company, Kresge Stores, McCrory Stores and many others that are equally well known. We will gladly send you samples and literature that will give you more complete information about this product.

LAPIDOLITH
TRADE MARK

Other Sonneborn Products

CEMCOAT—A paint that stays white longer than any similar paint; can be washed again and again; sticks to brick or concrete as easily as to wood; and usually requires one less coat. Made for both interiors and exteriors in white and colors, and in gloss, eggshell, or flat enamel finish.

STORMTIGHT—The famous semi-liquid compound for mending and preserving roofs. This thick, adhesive, rubberlike material can be applied by anyone, over any kind of roof, and it gives a tight new surface that lasts for years. Mends one leak or waterproofs an entire roof surface.

HYDROCIDE—A complete line of water-proofing and damp-proofing products for walls, copings, foundations, etc. There is a special Hydrocide for each class of use. For instance, on exterior walls Hydrocide Colorless retains the natural beauty of the wall.

LIGNOPHOL—A preservative dressing for wood floors that penetrates and restores the natural oil and gum of the wood. Lignophol prevents rotting, drying out, and splintering; it is not sticky; it can easily be washed; and does away with ordinary floor oils.

Send for free sample of any of these products

L. Sonneborn Sons, Inc.

114 Fifth Ave., New York City

Index to Advertising Announcements

Acme Brick Company.....	8	Glidden Company, The	86	North Western Expanded Metal Co..	5
Adam Electric Company, Frank.....	120	Globe Ventilator Company.....	162	Norton Company	105
Alberene Stone Company.....	44	Goder Incinerator Company.....	180	Otis Elevator Company.....	44
Aluminum Co. of America.....	92	Gorham Company, The.....	120	Paine Lumber Co., Ltd.....	98
American Blower Company.....	173	Grauer, Albert & Co.....	107	Palmer Lime & Cement Company..	34
American Cement Tile Mfg. Co., 4th Cover		Graybar Electric Company.....	37	Pecora Paint Company.....	92
American Enamelled Brick & Tile Co.	16	Guastavino Company, R.....	7	Peerless Unit Ventilation Co., Inc..	175
American Face Brick Association..	24	Guth Company, Edwin F.....	129	Pfaudler Co., The.....	194
American Laundry Machinery Co.	191	Hanley Company, Inc.....	9	Pick & Company, Albert	97, 124,
American Radiator Company, 21, 160, 165		Harrington Company, Joseph	168	125, 152, 153	
American Seating Company.....	81	Hart & Hegeman.....	123	Pittsburgh Reflector Company.....	131
American Sheet and Tin Plate Co..	110	Hartmann Sanders Co.....	98	Portland Cement Association.....	14
American Stove Company	126	Hassall Inc., John.....	56	Pratt & Lambert, Inc.....	93
American Walnut Mfrs. Ass'n.....	72	Hauserman Co., The E. F.....	57		
Anchor Post Iron Works.....	102	Hess Warming & Ventilating Co.....	162	Ramp Buildings Corporation.....	11
Appalachian Marble Company.....	2	Higgin Mfg. Co.....	112	Raymond Concrete Pile Company..	3
Armstrong Cork and Insulation Company	104, 141	Hockenbury System, Inc., The.....	148	Reeves Company, Robert C.....	188
Armstrong Cork Co.	17	Hocking Valley Products Co.....	26	Reischmann & Sons, M.....	83
Art Metal Construction Company..	156	Hope & Sons, Henry.....	158	Richards Wilcox Mfg. Co.....	2nd Cover
Artistic Lighting Equipment Ass'n.....	48	Illinois Engineering Company.....	215	Ritter Lumber Co., W. M.....	96
Athey Company	157	Imperial Brass Mfg. Co., The.....	194	Rookwood Pottery Company, The..	102
Atlantic Insulated Wire & Cable Co.	128	Improved Office Partition Company.....	68	Ruberoid Co., The.....	106
Austral Window Co.	158	Indiana Limestone Quarrymen's Ass'n	100, 101	R. U. V. Co., Inc., The.....	201
Automatic Electric Company.....	151	International Heater Co.....	164	Samson Cordage Works.....	190
Bakelite Corporation	1	International Nickel Co.....	181	Sandusky Cement Company.....	3rd Cover
Barber Asphalt Co.....	150	Jacobson Mantel & Ornament Co.....	82	Sanymetal Products Co., The.....	56
Barrett Company, The.....	109	Jacobson and Company.....	77	Sargent & Company.....	52
Beardslee Chandelier Mfg. Co.....	84	Jenkins Bros.....	202	Schumacher & Co., F.....	75
Beaver Products Co., Inc.....	27	Johnson Service Company.....	117	Sellers & Sons Company, G. I.....	133
Billings-Chapin Co., The.....	38	Johnson Co., S. T.....	166	Sherwin-Williams Company, The.....	118, 119
Bird and Son, Inc.....	82	Kalman Steel Company.....	192	Sloane, W. & J.....	74
Blabon Co., The George W.....	29	Kawneer Co., The.....	120	Smith Co., The F. H.....	180
Bonded Floors Company	73	Kelsey Heating Company, The.....	176	Smith & Egge Mfg. Co., The.....	176
Brasco Manufacturing Co.....	121	Kensington Mfg. Company.....	71	Sonneborn Sons, Inc., L.....	213
Bull Dog Floor Clip Co.....	190	Kerner Incinerator Co., The.....	189	Speakman Company.....	209
California White and Sugar Pine Mfrs. Ass'n	149	Kewanee Boiler Company.....	4	Spencer Heater Company.....	174
Carey Company, The Philip.....	147	Kewanee Private Utilities Co.....	110	Spencer Turbine Company, The.....	184
Carney Company, The	145	Kewaunee Mfg. Co.....	176	Standard Conveyor Co.....	183
Carter-Bloxonend Flooring Company.....		Keystone Roofing Mfg. Co.....	111	Stanley Works, The.....	54
Celotex Company, The.....	137	Kny-Scheerer Corporation of America	186	Straus & Co., S. W.....	134
Chamberlin Metal Weather Strip Co.....	155	Kohler Company	211	Toch Brothers	92
Chicago Pump Co.....	190	Lehigh Portland Cement Company	50, 51	Todhunter, Arthur	82
Chromium Corp. of America.....	23	Long-Bell Lumber Co., The.....	95	Trane Company, The.....	199, 200
Circle A Products Corporation.....	58	Louisville Cement Co.....	41	Trenton Potteries Company, The.....	206
Clinton Metallic Paint Co.....	44	Ludowici-Celadon Company, The.....	108	Tri-Lok Company, The.....	39
Clow & Sons, James B.....	143	Lupton's Sons Co., David.....	159	Turner Construction Company	64
Coldak Corporation	32, 33	Macbeth-Evans Glass Co.....	132	Tuttle & Bailey Mfg. Co.....	76
Columbia Mills, Inc.....	63	Maddock's Sons Co., Thomas.....	208	United States Gutta Percha Paint Co	87
Common Brick Mfrs. Ass'n.....	10	Maple Flooring Manufacturers' Ass'n	106	United States Gypsum Company.....	45
Compound & Pyrono Door Co., The	22	Martin Varnish Co.....	94	United States Radiator Corp.....	169
Concrete Engineering Co., The.....	177	Mason Fibre Company.....	43	United States Rubber Co.....	103
Congoleum-Nairn, Inc.....	19, 20	McKinney Mfg. Company.....	53	Universal Portland Cement Co.....	66
Corbin, P. & F.....	55	Midwest Air Filters, Inc.....	180	Van Guilder System Concrete Bldg., Inc.	184
Cornell Iron Works, Inc.....	106	Milwaukee Corrugating Co.....	6	Valentine & Company	85
Crane Company	207	Mississippi Wire Glass Co.....	102	Van Range Co., John	127
Crittall Casement Window Company	154	Moulding Brick Co., Thos.....	28	Van Zile Ventilating Co.....	162
Curtis Companies	98	Mount & Robertson, Inc.....	56	Vitrolite Company, The.....	187
Cutler Mail Chute Co.....	110	Mueller Company	204	Vortex Mfg. Company	40
De Long Furniture Co.....	79	Murphy Door Bed Co., The.....	80	Wallace & Tiernan, Inc.	182
Dixon Crucible Co., Joseph.....	113	Murphy Varnish Company.....	89	Warman-Cook	84
Dunham Company, C. A.....	163	Nash Engineering Co.....	185	Warren Webster & Co.	47
Duriron Co., The.....	195	National Council for Better Plastering, The	25	Wasmuth-Endicott Company	84
Egyptian Lacquer Mfg. Company.....	90	National Lead Company	91	Wellston Iron Furnace Company, The	167
Elier Company	216	National Metal Molding Co.....	196, 197	Western Pine Mfg. Association	96
Excelso Specialty Works.....	205	National-Mortar & Supply Co.....	12, 13	Wickwire Spencer Steel Co.....	193
Fairbanks, Morse & Co.....	178, 179	National Radiator Company	161	Wilde Company, W. B.....	172
Federal Cement Tile Company.....	42	National Steel Fabric Co.....	46	Williams Oil-O-Matic Heating Corp.	171
Flexlume Corporation	35	National Terra Cotta Society	18	Wilmot Castle Co.....	49
Frink Co., Inc., The.....	130	National Tube Co.	198	Wilson Corporation, The J. G.....	186
Fulton Company, The.....	139	Nelson Corp., The H. W.....	170	Woodville Lime Products Co.	30
Georgia Marble Company, The.....	36	Never Split Seat Company	203	Young Pump Company	122
Gillis & Geoghegan	116			Zapon Company, The.....	88

"A Concern is known by the Companies it keeps"

ILLINOIS ENGINEERING CO. Inter-Office Correspondence

Chicago, Nov. 1, 1926.

Gentlemen:

Among October sales, we note orders from or for the following Corporations:

American Can Co.,
American Express Co.,
American Shipbuilding Co.,
American Fork and Hoe Co.,
Armour & Company,
Swift & Company,
Standard Oil Co. of California,
Standard Oil Co. of Ohio,
Pure Oil Company,
Sinclair Oil Company,
Dupont Company,
E. I. Dupont deNemours Co.,
Corn Products Refining Co.,
National Biscuit Company,
A. G. Spaulding & Bros.,
National Lead Company,
National Fireproofing Co.,
Wurlitzer Company,
Battle Creek Sanitarium,
Libbey Glass Company,
Barber Asphalt Company,
New Jersey Zinc Company,
Simonds Saw Company,
Dodge Mfg. Company,
Central Mfg. District,
City of Cleveland,
Cook County, Illinois,
City and County San Francisco,
Crane Company,
Walworth Company,

Pacific Telephone and Telegraph Co.,
General Fire Extinguisher Company,
Rockwood Sprinkler Company,
B. F. Sturtevant Company,
Minnesota Steel Company,
C. R. I & P. Ry.,
I. C. R. R.,
C. M. & St. P. R. R.,
C. St. P. M. & O. Ry.,
New York Central R. R.,
Bessemer and Lake Erie R. R.,
A. T. & S. F. Ry.,
Reading R. R.,
Pullman Company,
Nash Motors,
Packard Motor Car Company,
Willard Storage Battery,
Electric Storage Battery,
Atwater Kent Company,
Delco Light Company,
Fisher Body Company,
Great Western Power Co.,
So. Indiana Gas and Electric Co.,
No. Indiana Power Company,
Commonwealth Edison Company,
Interstate Power Co.,
Va. Western Power Co.,
New York Steam Co.,
Ohio Edison Company,
Florida East Coast Hotels Co.

This list made up from a single month's business, reads like a section of the New York Stock Exchange list, and it is very gratifying to know that the merit of our products is so generally recognized by such Corporations.

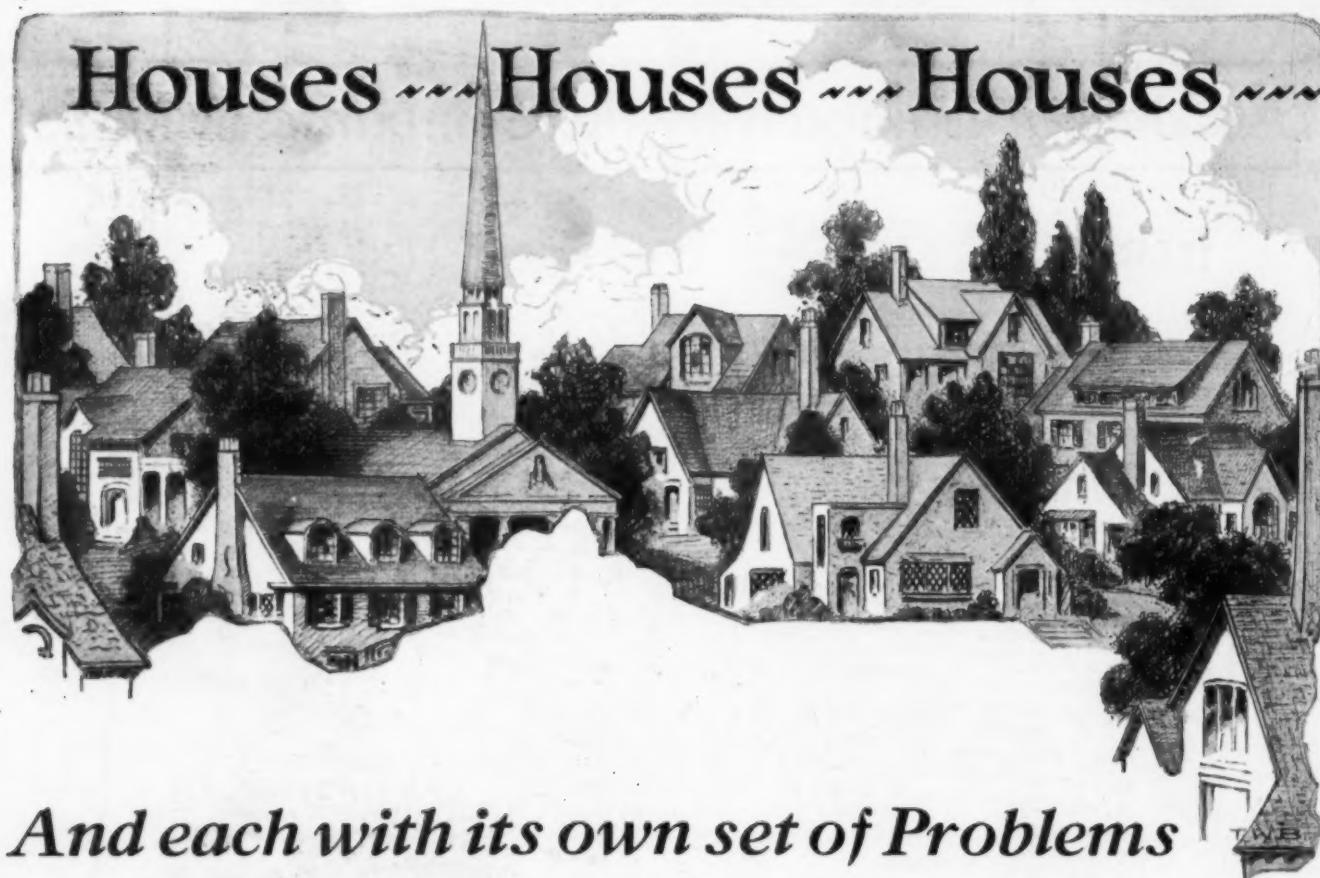
The above is tangible evidence of our unusual success, our products not only stay sold, without service, but one sale nearly always leads to repeat orders.

Yours very truly,

ILLINOIS ENGINEERING COMPANY.
By *Robt. L. Gifford, Pres.*

RLG-S

REPRESENTATIVES IN 40 CITIES OF U.S.A.
ILLINOIS ENGINEERING COMPANY
 ROBT. L. GIFFORD President INCORPORATED 1900
CHICAGO



And each with its own set of Problems

When space limitations placed on the size of the bathroom present a problem of arrangement and choice of fixtures, the answer will be found in an Eljer catalog.

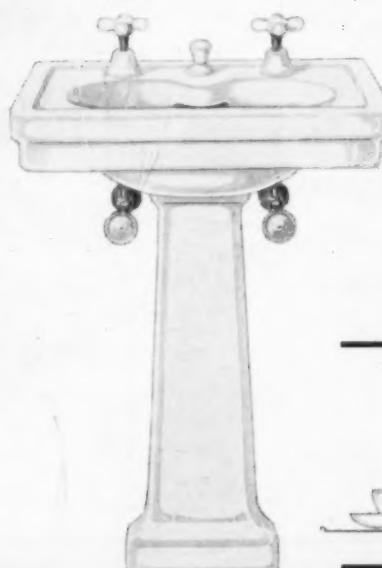
Among a number of special designs to fit such a condition is The Franklin Lavatory, No. 197, with a 17" x 22" slab. This beautiful fixture of vitreous china (as fine as that used in French table china) provides the same size bowl usually found with a 24" slab. It not only saves space but pocket-books as well, for it costs no more than

ordinary ware of the same bowl size.

Familiarity with Eljer fixtures in their various special as well as staple designs, will often prove both a time and money-saver. A catalog will be gladly forwarded at once.

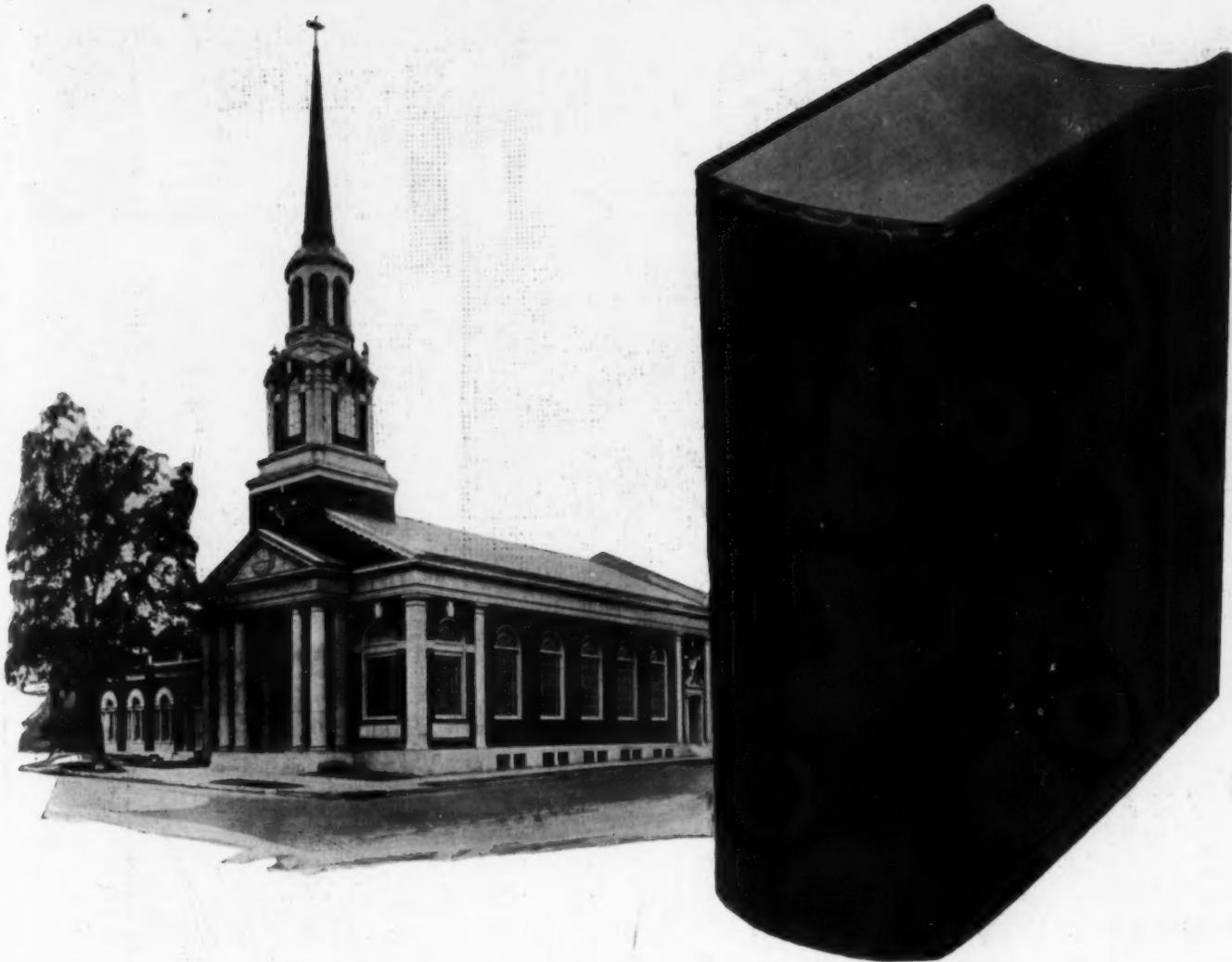
Eljer Co., Ford City, Pa.

Plants at Ford City, Pa.
and Cameron, W. Va.



Eljer China is similar in texture to the finest French Table China—but with the added toughness necessary to withstand rough usage. Acid-proof and rust-proof.

ELJER
VITREOUS CHINA PLUMBING FIXTURES



It's So Easy to Specify Medusa

TURN to Sweet's and use the Medusa Catalogs there. Medusa White Cement, Pages 341 to 349; Medusa Waterproofing, Pages 118 to 121.

You'll find these to be accurate, time saving aids to you or your specifications writer.

Specifying Medusa becomes

an easy task and your work will receive the protection of permanence in its final form.

We will gladly supplement the information in Sweet's with our own catalogs. The Medusa Pool Book and the Medusa Concrete Products Book would prove of interest to you. May we send copies?

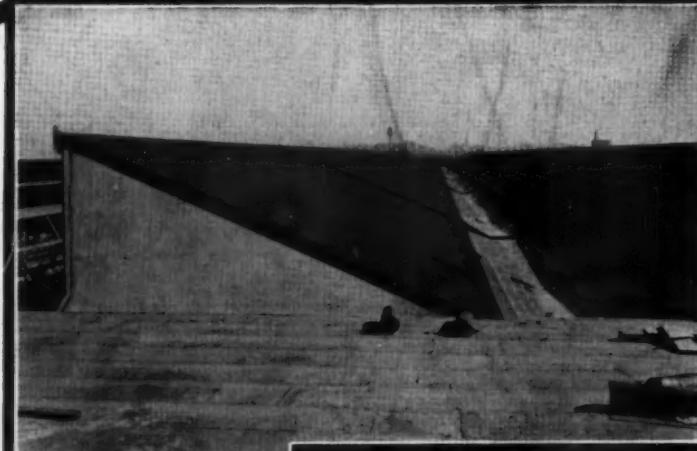
THE SANDUSKY CEMENT COMPANY
The Engineers' Building

Manufacturers of Medusa White Portland Cement, (Plain and Waterproofed); Medusa Waterproofing (Powder or Paste); Medusa Gray Cement (Plain and Waterproofed); and Medusa Cement Paint.



MEDUSA

CEMENTILE



At left: Cementile Interlocking and flat tile types of roof construction—the latter used also for the gutters.

Ford Motor Co. assembly plant at Somerville, Mass.
Albert Kahn, Inc.
Architects and Engineers.



"CEMENTILE" Roofs on Ten Different Ford Plants

Certainly this is a record which speaks well for Cementile—as anyone will recognize who is familiar with the rigid standards which the Ford Motor Company insist upon. These installations called for a total of 2,000,000 square feet of this permanent, fire-safe roofing.

Cementile was specified on these ten Ford plants because experience has proven Cementile safe, permanent, and economical—Cementile takes the maintenance out of roofing.

Leading architects know the value of Cementile. Careful buyers like the Ford Motor Company are sold on Cementile for permanent low-cost roofing. You should know the facts about Cementile, too. *Write for the Cementile Catalog—today.*

"CEMENTILE" comes in three types; Red Interlocking for pitched roofs; Flat and Channel for flat or pitched roofs where it is desired to waterproof with a composition covering.

"CEMENTILE" is laid directly on the roof purlins.

American Cement Tile Manufacturing Company

1201 Oliver Building

PITTSBURGH, PENNA.

PLANTS: Wampum, Pa. — Lincoln, N. J. — Birmingham, Ala.

OFFICES: Pittsburgh — New York — Philadelphia — Birmingham — Atlanta

